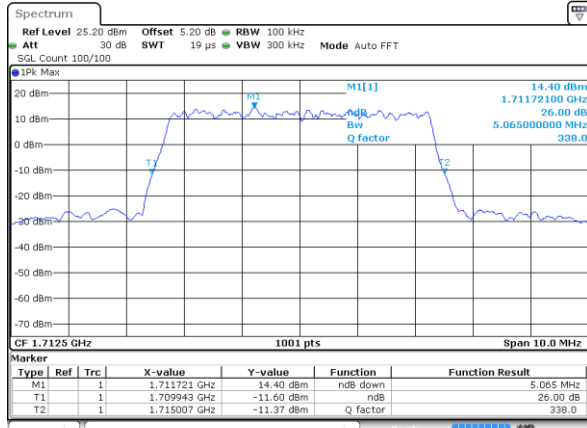




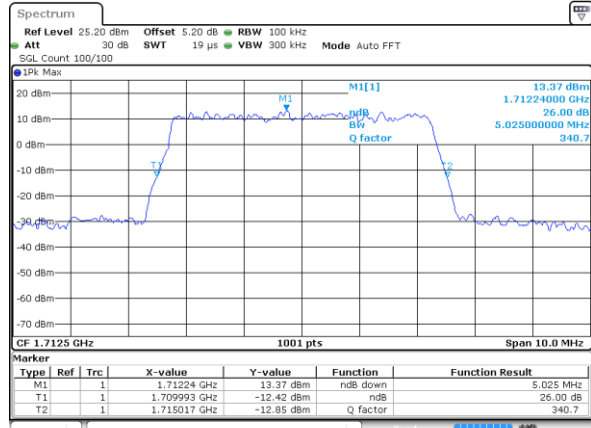
## LTE Band 4

## Lowest Channel / 5MHz / QPSK



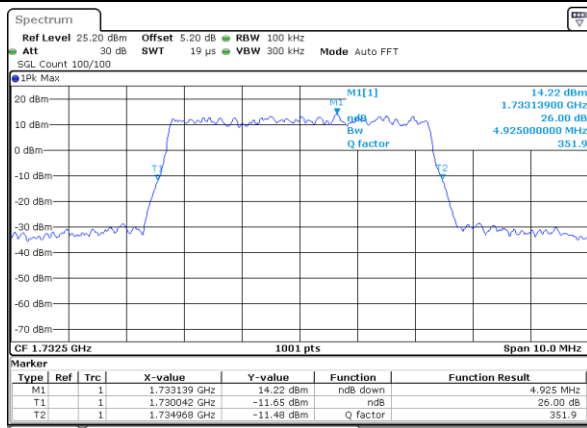
Date: 20 JAN 2018 10:15:32

## Lowest Channel / 5MHz / 16QAM



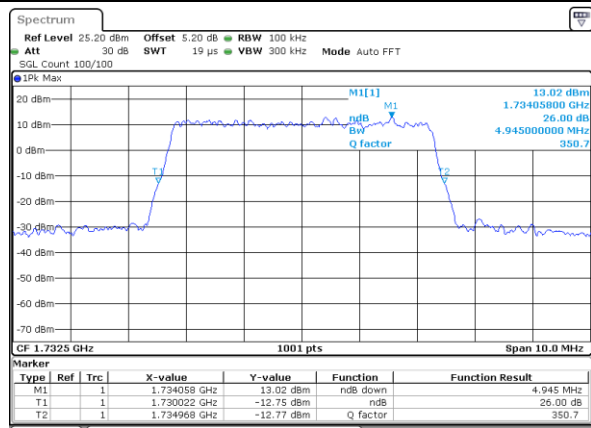
Date: 20 JAN 2018 10:15:41

## Middle Channel / 5MHz / QPSK



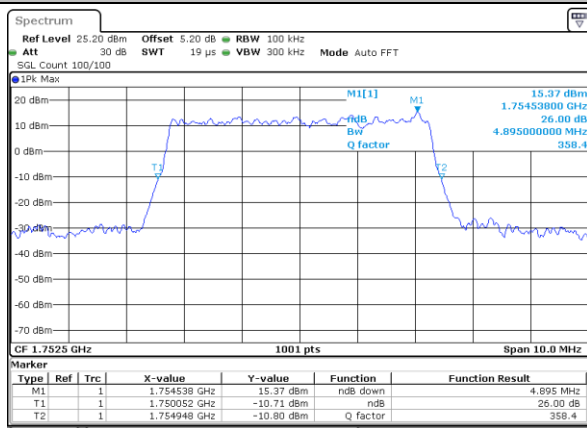
Date: 20 JAN 2018 10:22:30

## Middle Channel / 5MHz / 16QAM



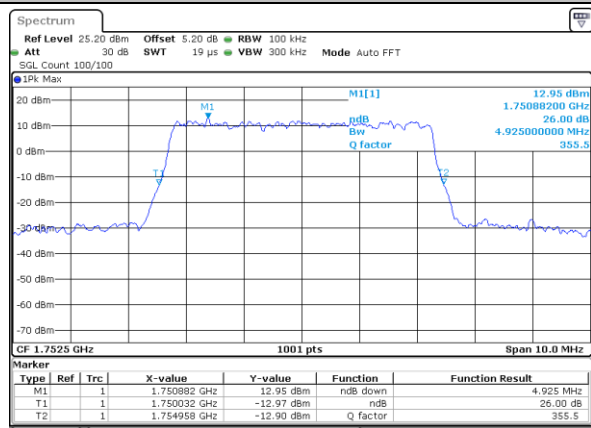
Date: 20 JAN 2018 10:22:40

## Highest Channel / 5MHz / QPSK



Date: 20 JAN 2018 10:24:59

## Highest Channel / 5MHz / 16QAM

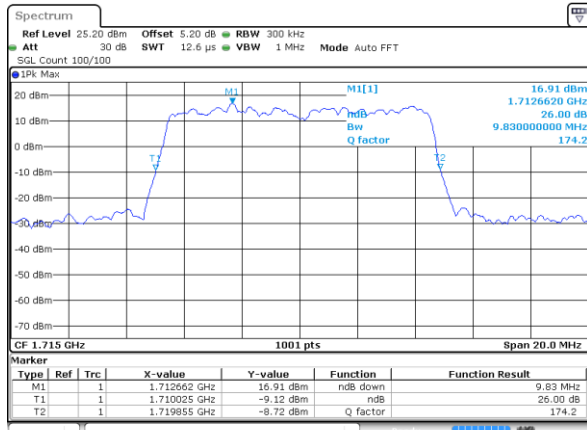


Date: 20 JAN 2018 10:25:08



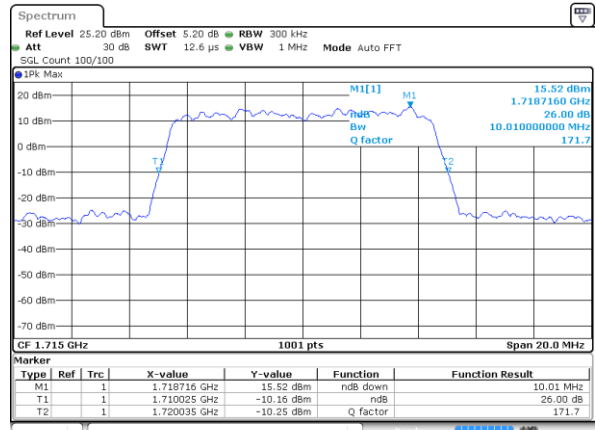
## LTE Band 4

## Lowest Channel / 10MHz / QPSK



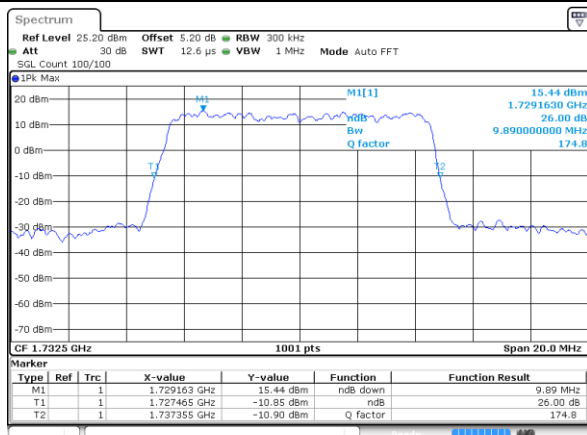
Date: 20 JAN 2018 10:31:57

## Lowest Channel / 10MHz / 16QAM



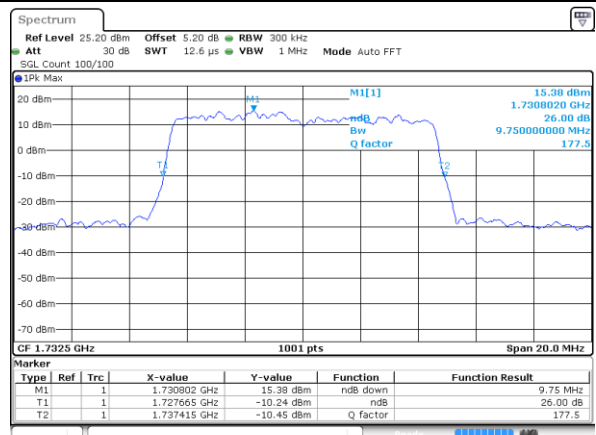
Date: 20 JAN 2018 10:32:07

## Middle Channel / 10MHz / QPSK



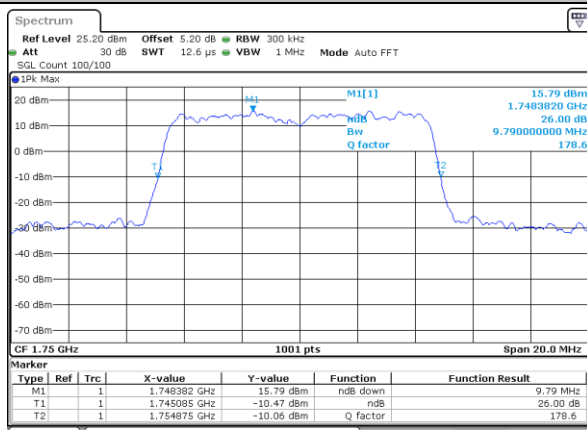
Date: 20 JAN 2018 10:38:55

## Middle Channel / 10MHz / 16QAM



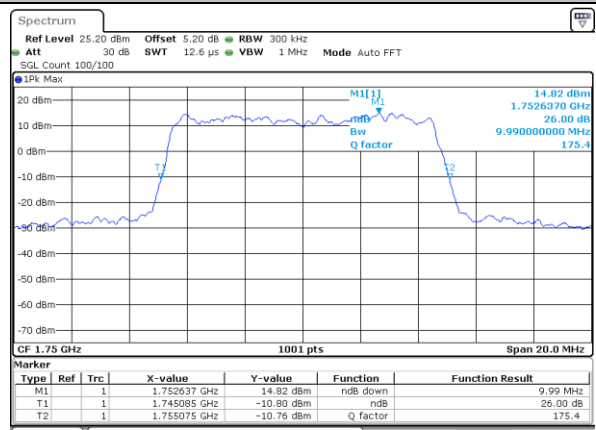
Date: 20 JAN 2018 10:39:05

## Highest Channel / 10MHz / QPSK



Date: 20 JAN 2018 10:41:24

## Highest Channel / 10MHz / 16QAM

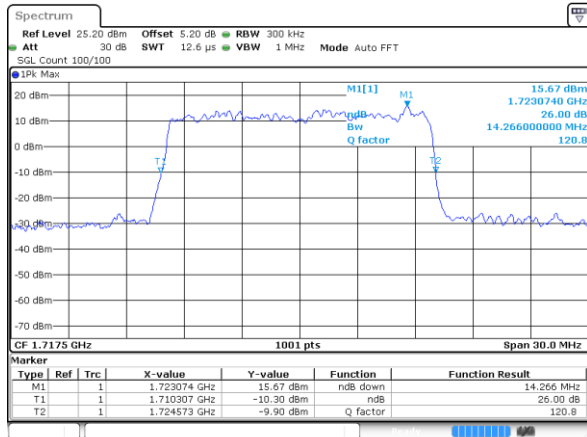


Date: 20 JAN 2018 10:41:33



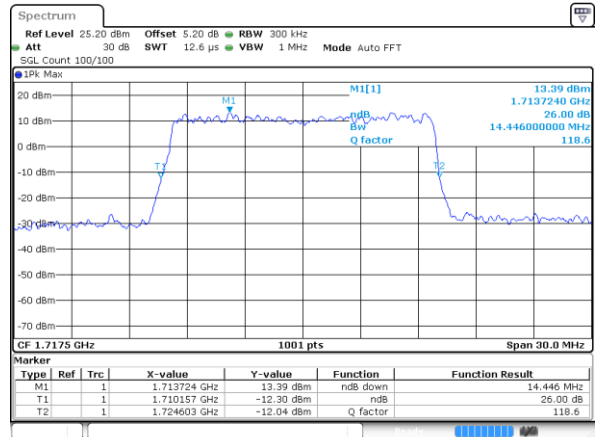
## LTE Band 4

## Lowest Channel / 15MHz / QPSK



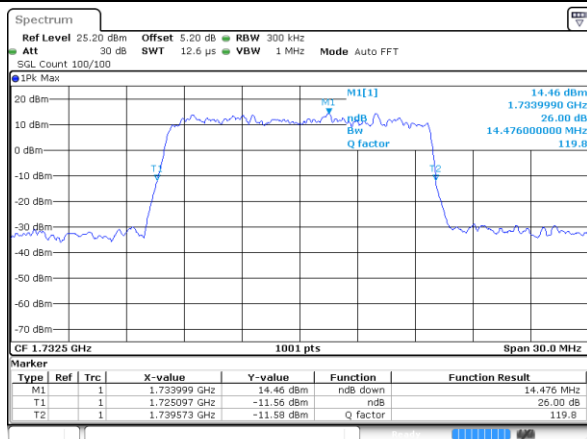
Date: 20 JAN 2018 10:48:22

## Lowest Channel / 15MHz / 16QAM



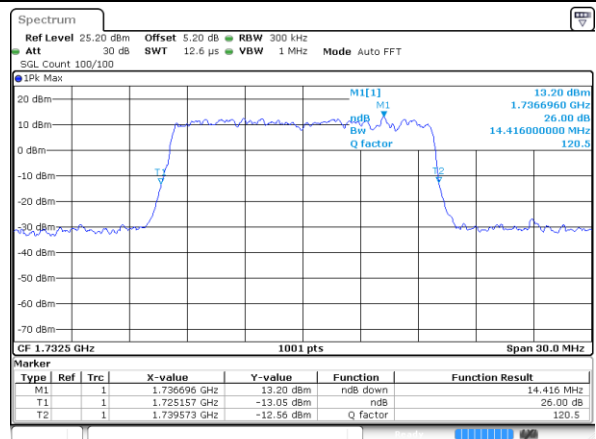
Date: 20 JAN 2018 10:48:32

## Middle Channel / 15MHz / QPSK



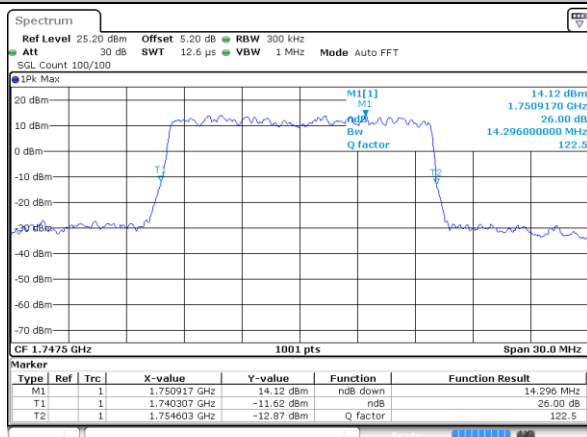
Date: 20 JAN 2018 10:55:20

## Middle Channel / 15MHz / 16QAM



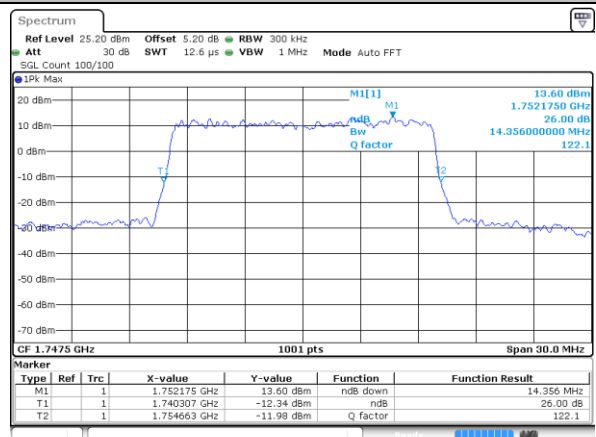
Date: 20 JAN 2018 10:55:30

## Highest Channel / 15MHz / QPSK



Date: 20 JAN 2018 10:57:48

## Highest Channel / 15MHz / 16QAM

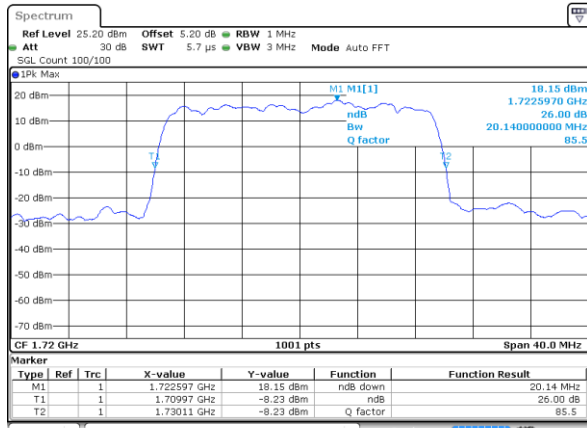


Date: 20 JAN 2018 10:57:58

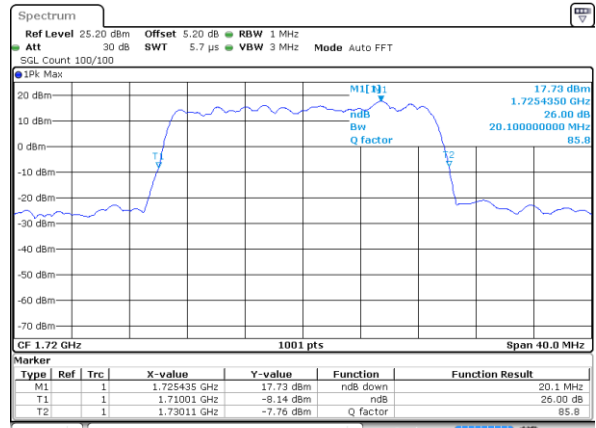


## LTE Band 4

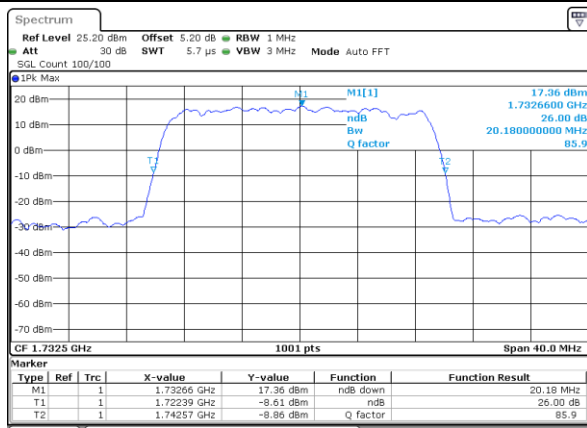
## Lowest Channel / 20MHz / QPSK



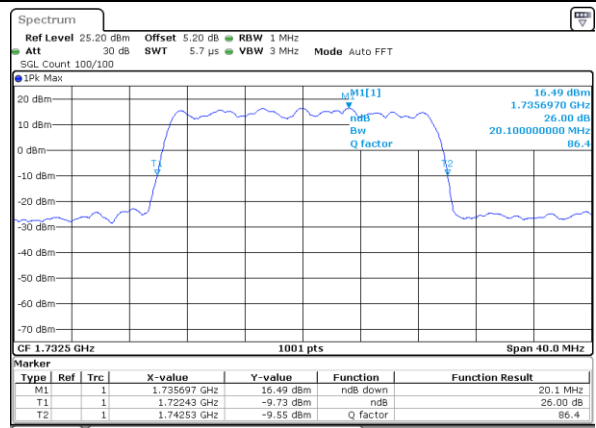
## Lowest Channel / 20MHz / 16QAM



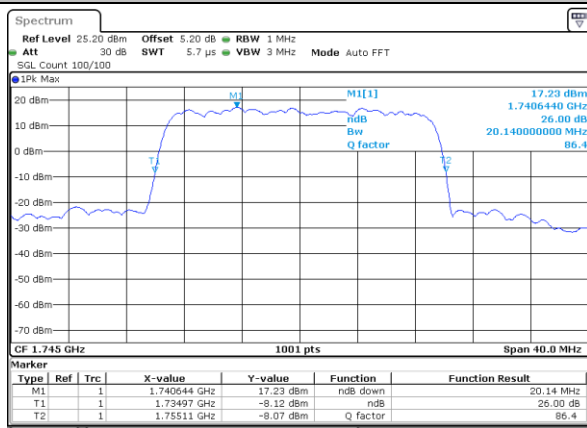
## Middle Channel / 20MHz / QPSK



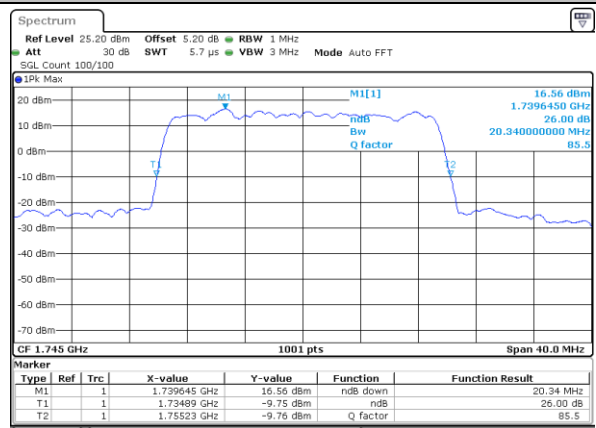
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



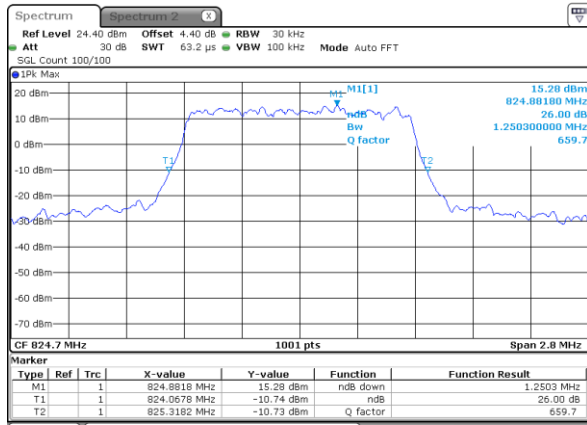
## Highest Channel / 20MHz / 16QAM





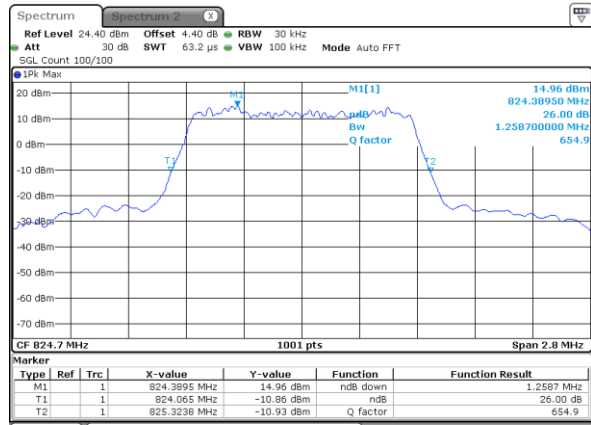
## LTE Band 5

## Lowest Channel / 1.4MHz / QPSK



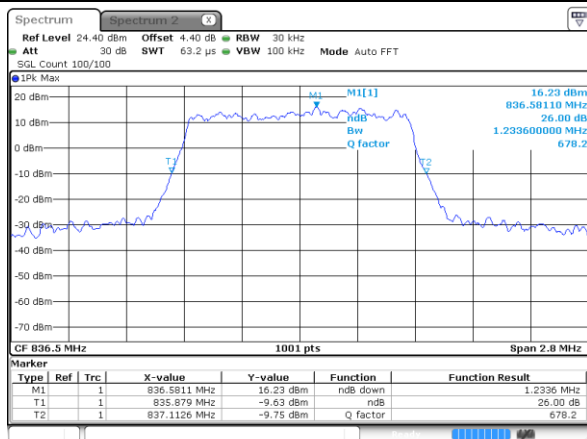
Date: 2 NOV 2017 23:17:03

## Lowest Channel / 1.4MHz / 16QAM



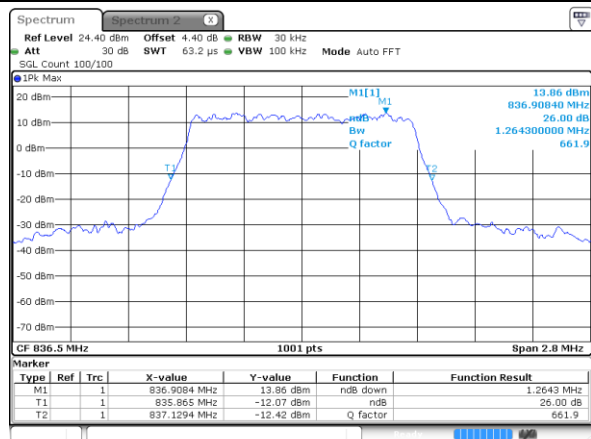
Date: 2 NOV 2017 23:16:53

## Middle Channel / 1.4MHz / QPSK



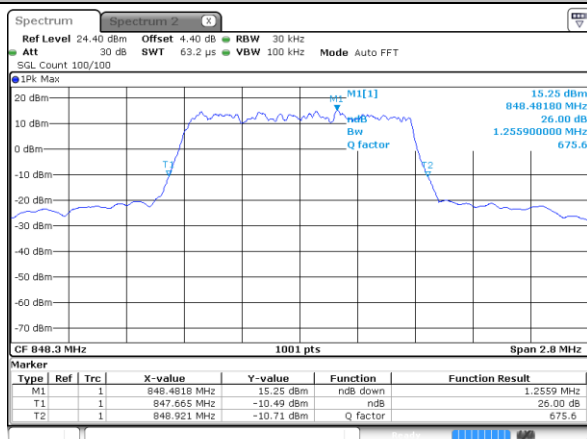
Date: 2 NOV 2017 23:25:51

## Middle Channel / 1.4MHz / 16QAM



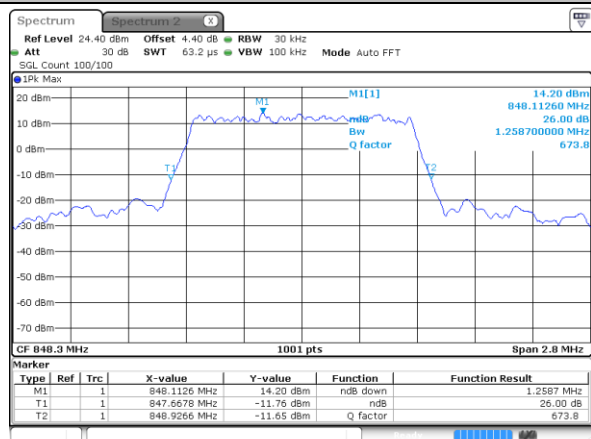
Date: 2 NOV 2017 23:26:00

## Highest Channel / 1.4MHz / QPSK



Date: 2 NOV 2017 23:28:19

## Highest Channel / 1.4MHz / 16QAM

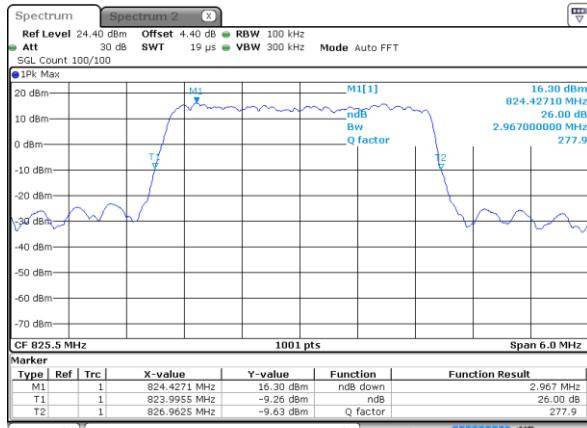


Date: 2 NOV 2017 23:28:29



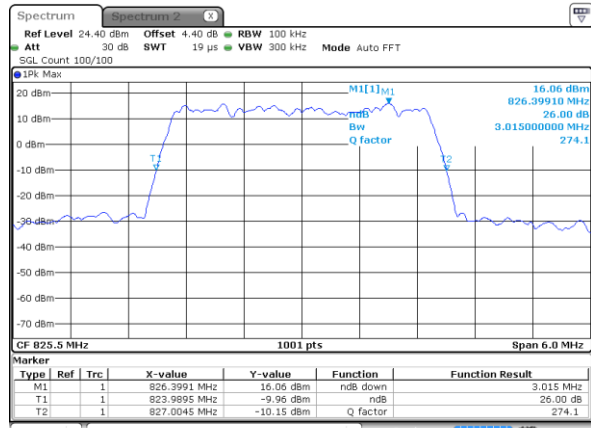
## LTE Band 5

## Lowest Channel / 3MHz / QPSK



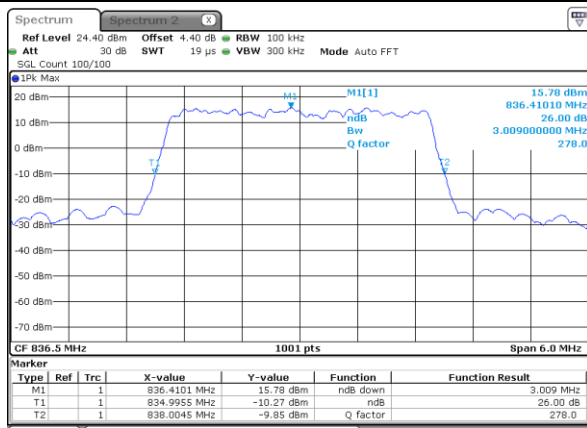
Date: 2 NOV 2017 23:37:16

## Lowest Channel / 3MHz / 16QAM



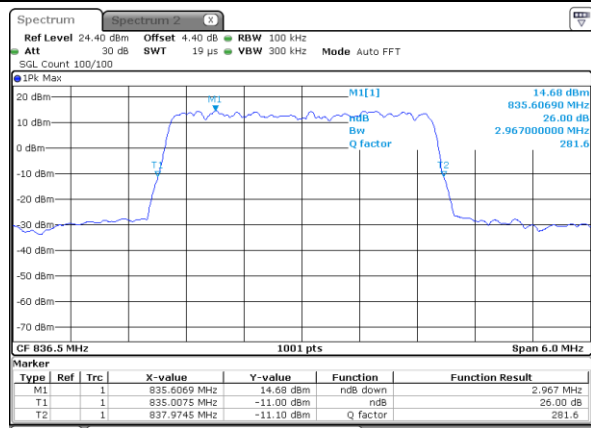
Date: 2 NOV 2017 23:37:26

## Middle Channel / 3MHz / QPSK



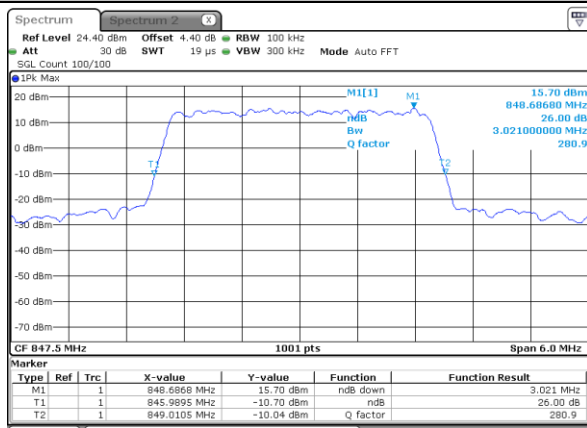
Date: 2 NOV 2017 23:46:14

## Middle Channel / 3MHz / 16QAM



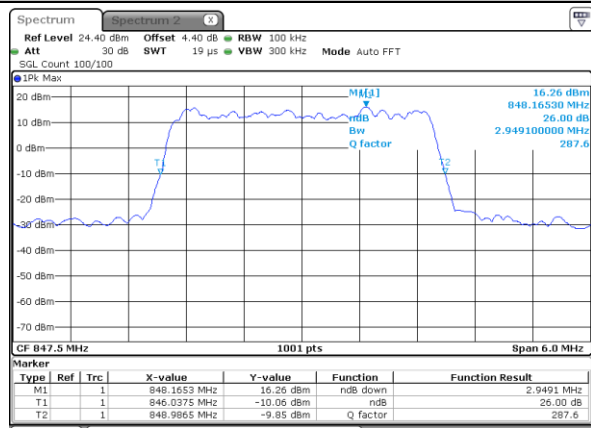
Date: 2 NOV 2017 23:46:24

## Highest Channel / 3MHz / QPSK



Date: 2 NOV 2017 23:48:42

## Highest Channel / 3MHz / 16QAM

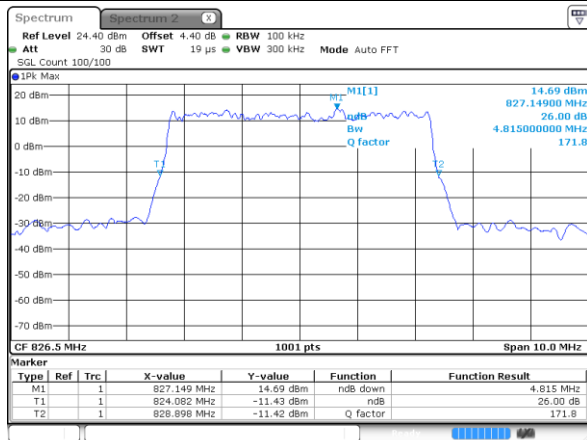


Date: 2 NOV 2017 23:48:52



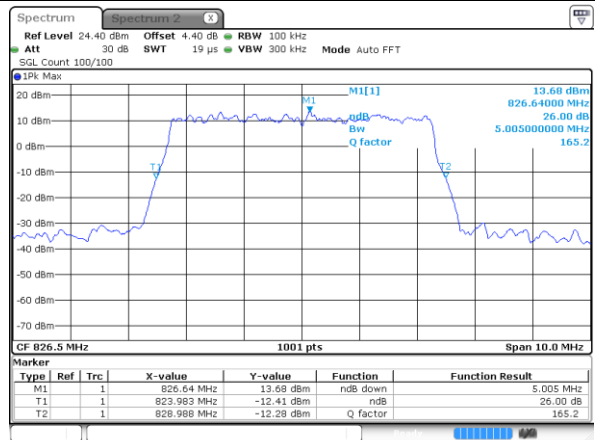
## LTE Band 5

## Lowest Channel / 5MHz / QPSK



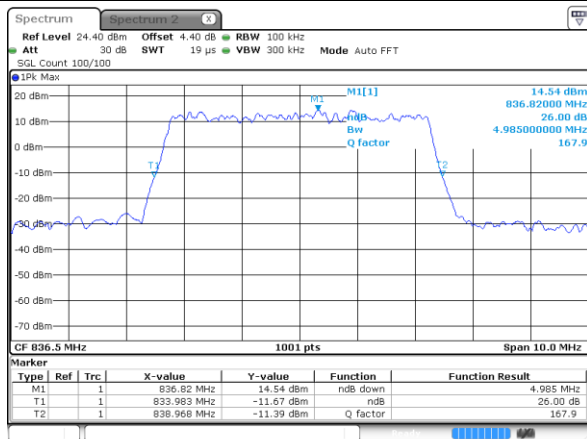
Date: 2 NOV 2017 23:57:40

## Lowest Channel / 5MHz / 16QAM



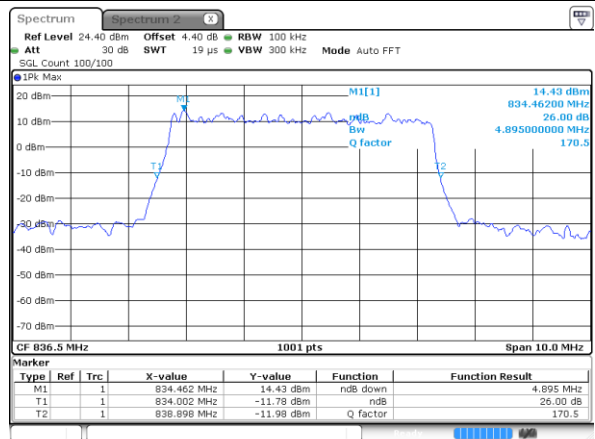
Date: 2 NOV 2017 23:57:50

## Middle Channel / 5MHz / QPSK



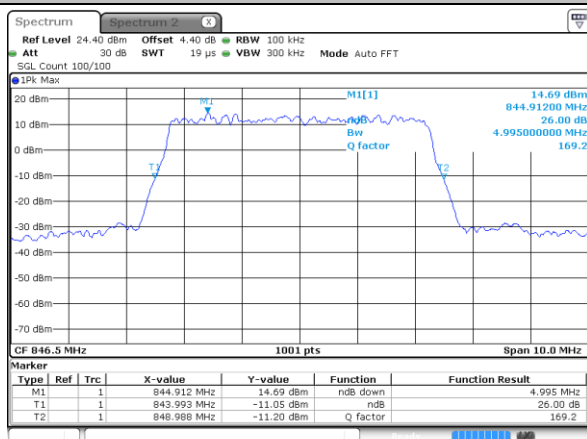
Date: 3 NOV 2017 00:06:38

## Middle Channel / 5MHz / 16QAM



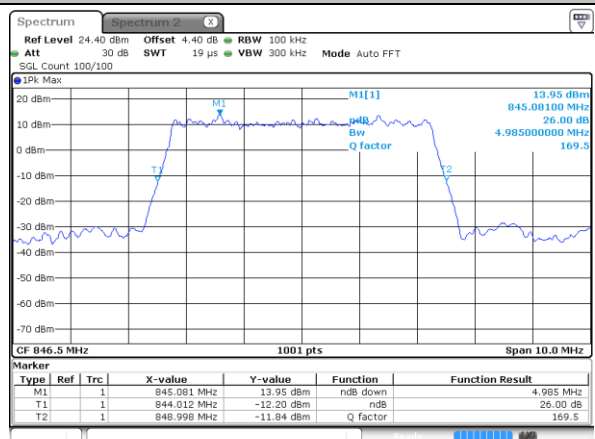
Date: 3 NOV 2017 00:06:48

## Highest Channel / 5MHz / QPSK



Date: 3 NOV 2017 00:09:06

## Highest Channel / 5MHz / 16QAM

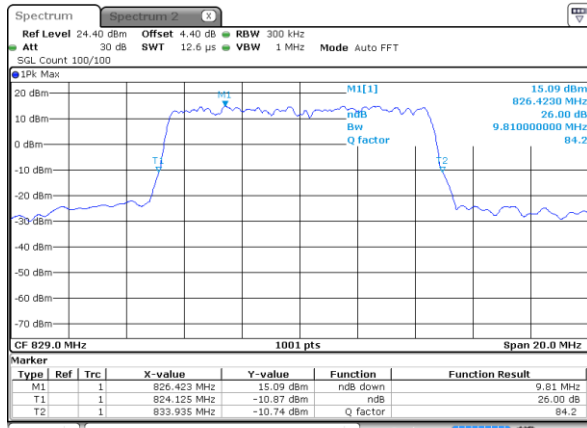


Date: 3 NOV 2017 00:09:16



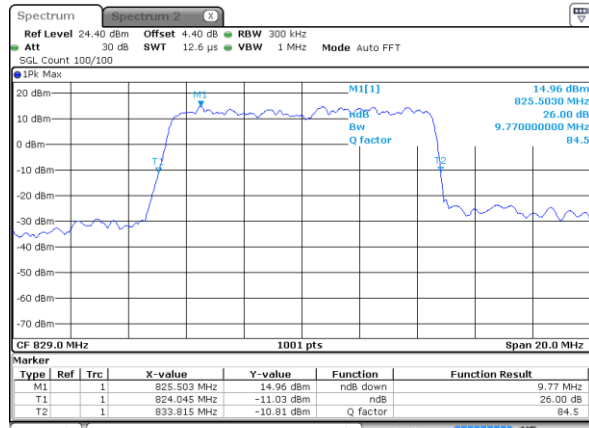
## LTE Band 5

## Lowest Channel / 10MHz / QPSK



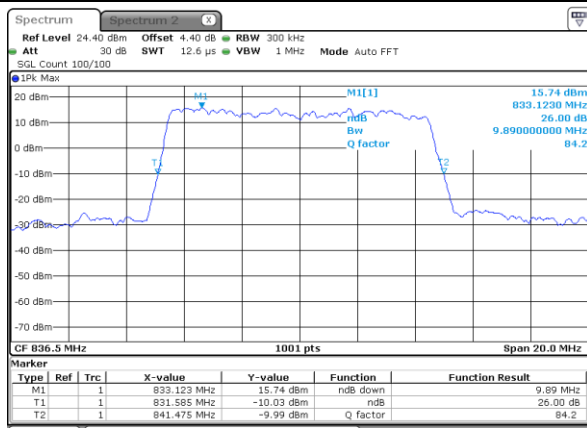
Date: 3 NOV 2017 00:18:04

## Lowest Channel / 10MHz / 16QAM



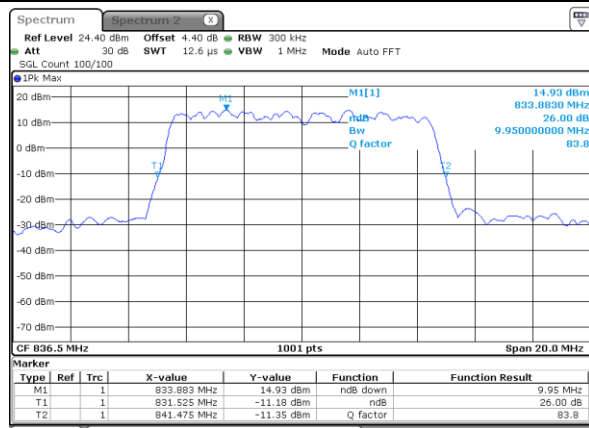
Date: 3 NOV 2017 00:18:13

## Middle Channel / 10MHz / QPSK



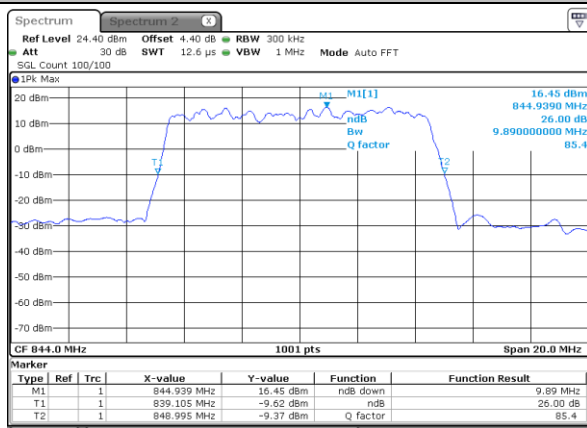
Date: 3 NOV 2017 00:27:01

## Middle Channel / 10MHz / 16QAM



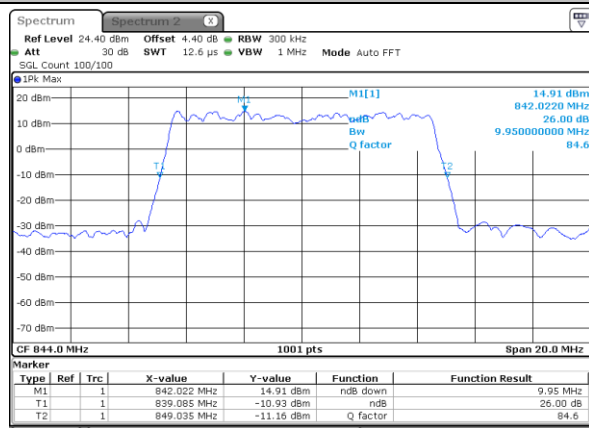
Date: 3 NOV 2017 00:27:11

## Highest Channel / 10MHz / QPSK



Date: 3 NOV 2017 00:29:29

## Highest Channel / 10MHz / 16QAM

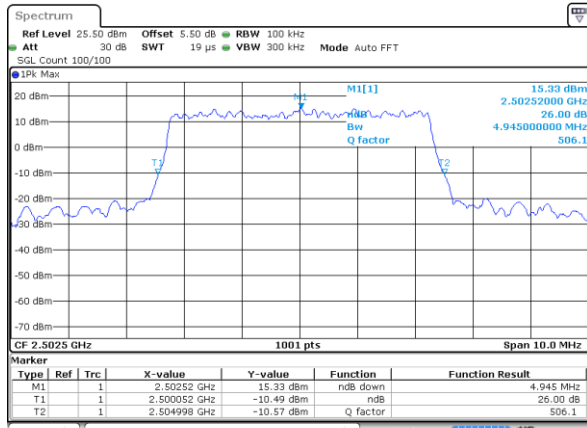


Date: 3 NOV 2017 00:29:39



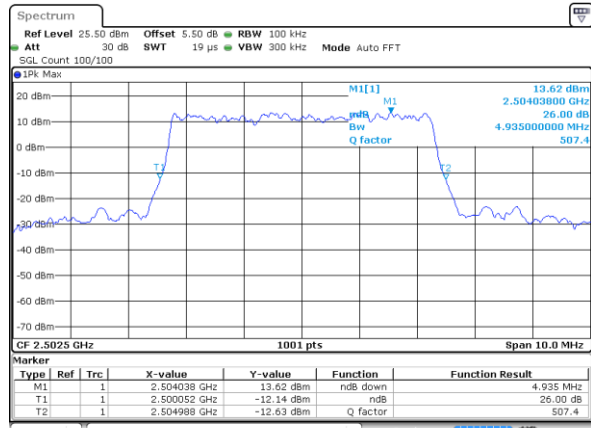
## LTE Band 7

## Lowest Channel / 5MHz / QPSK



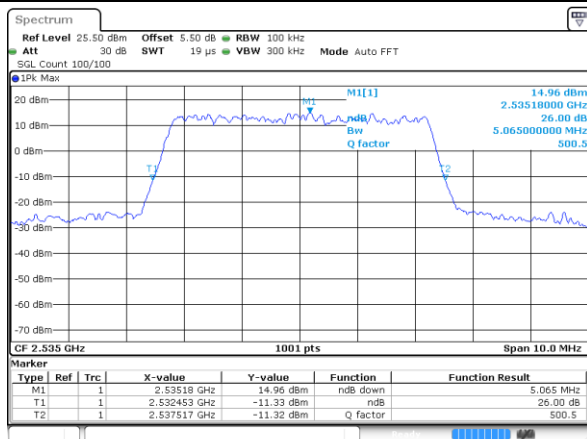
Date: 3 NOV 2017 08:48:28

## Lowest Channel / 5MHz / 16QAM



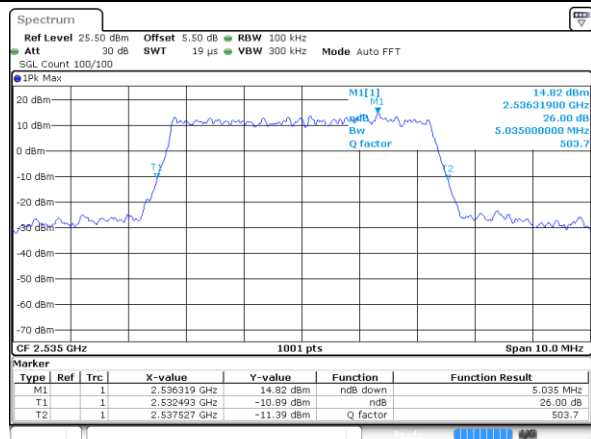
Date: 3 NOV 2017 08:48:48

## Middle Channel / 5MHz / QPSK



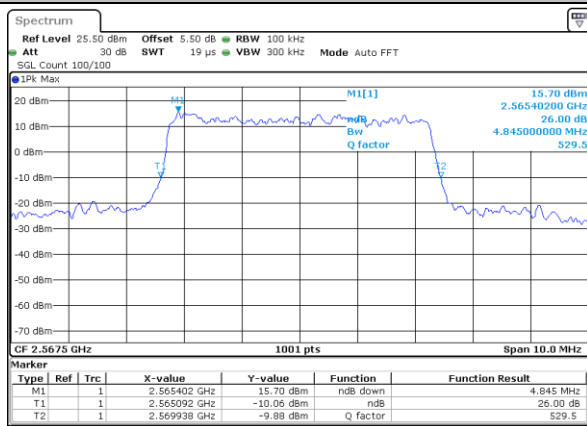
Date: 3 NOV 2017 08:49:28

## Middle Channel / 5MHz / 16QAM



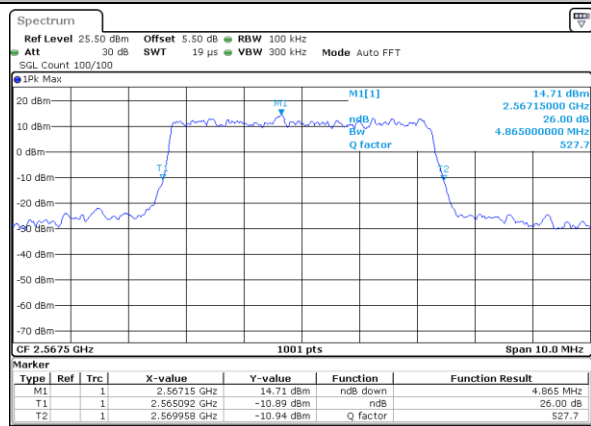
Date: 3 NOV 2017 08:49:08

## Highest Channel / 5MHz / QPSK



Date: 3 NOV 2017 08:49:48

## Highest Channel / 5MHz / 16QAM

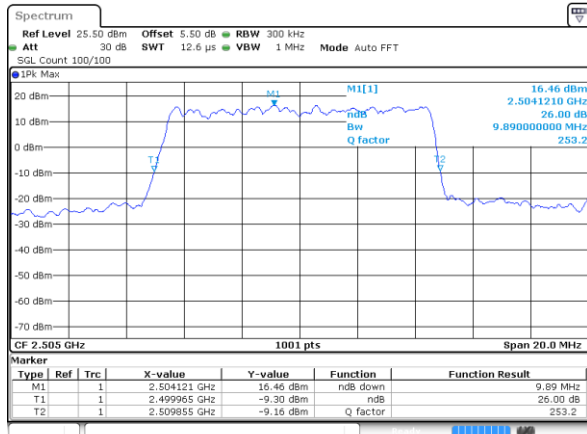


Date: 3 NOV 2017 08:50:08



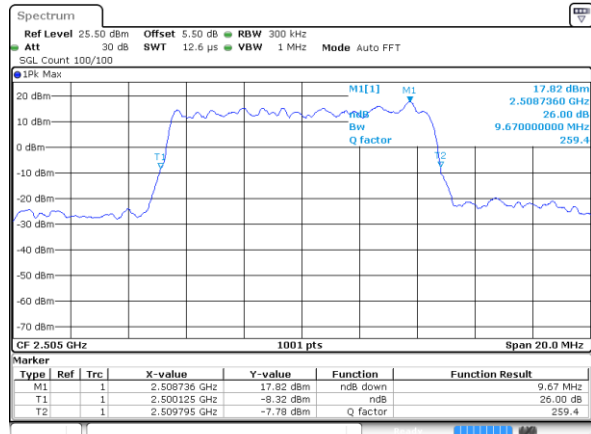
## LTE Band 7

## Lowest Channel / 10MHz / QPSK



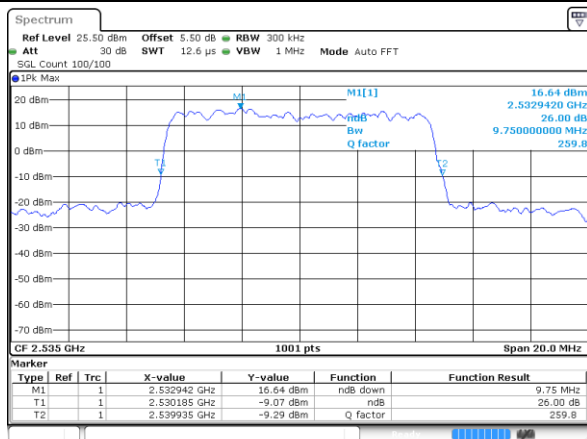
Date: 3 NOV 2017 09:04:54

## Lowest Channel / 10MHz / 16QAM



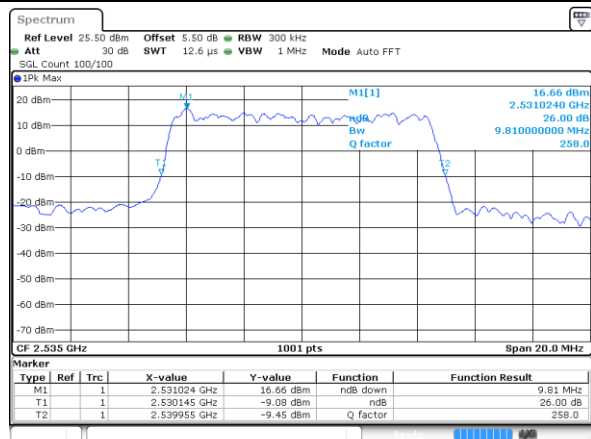
Date: 3 NOV 2017 09:05:14

## Middle Channel / 10MHz / QPSK



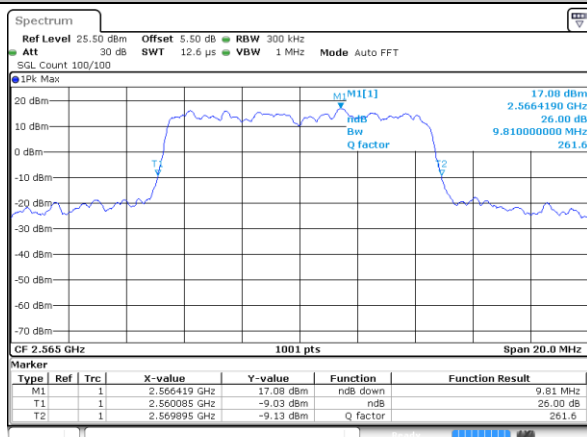
Date: 3 NOV 2017 09:05:54

## Middle Channel / 10MHz / 16QAM



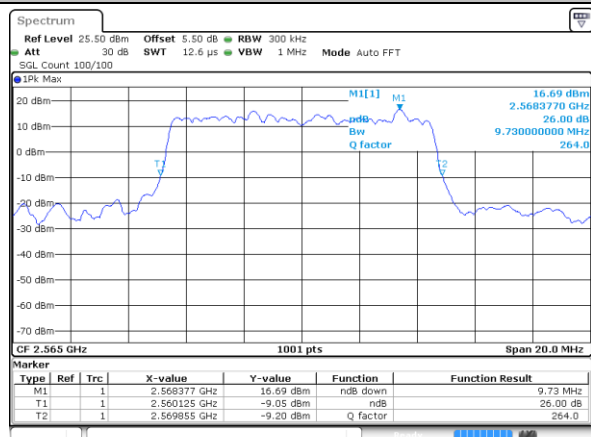
Date: 3 NOV 2017 09:05:54

## Highest Channel / 10MHz / QPSK



Date: 3 NOV 2017 09:06:13

## Highest Channel / 10MHz / 16QAM

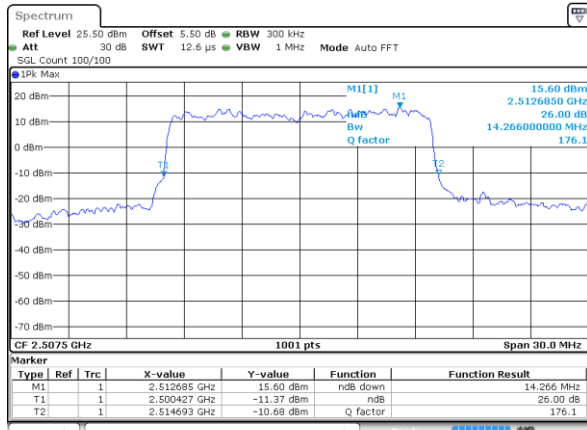


Date: 3 NOV 2017 09:06:33

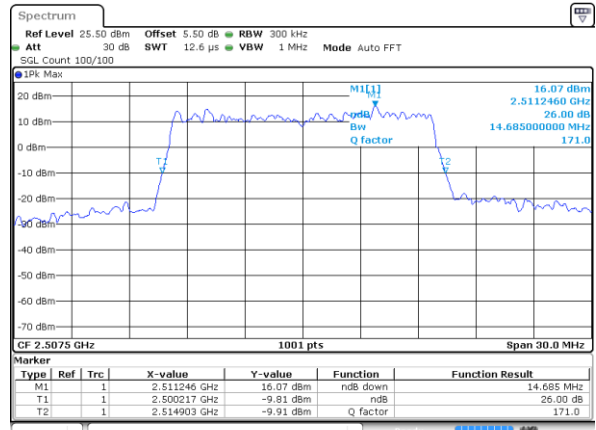


## LTE Band 7

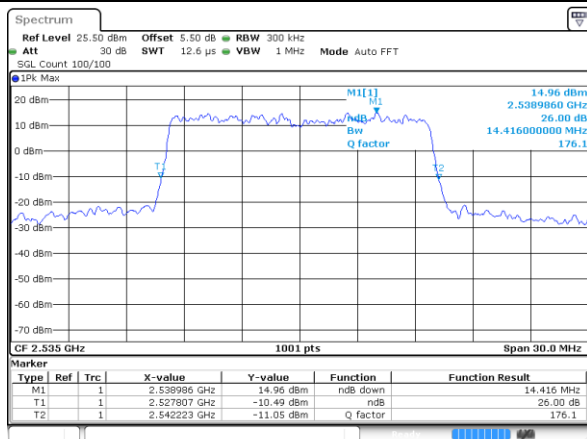
## Lowest Channel / 15MHz / QPSK



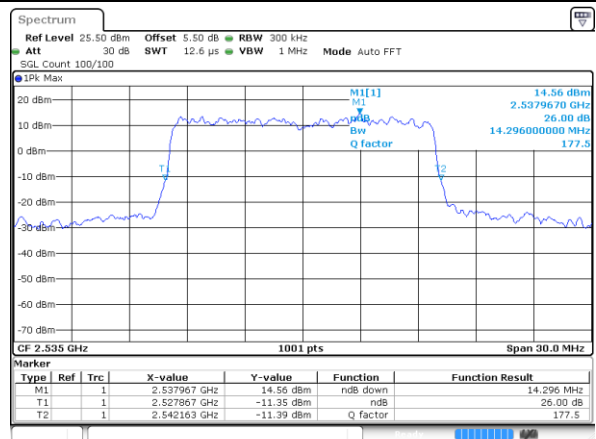
## Lowest Channel / 15MHz / 16QAM



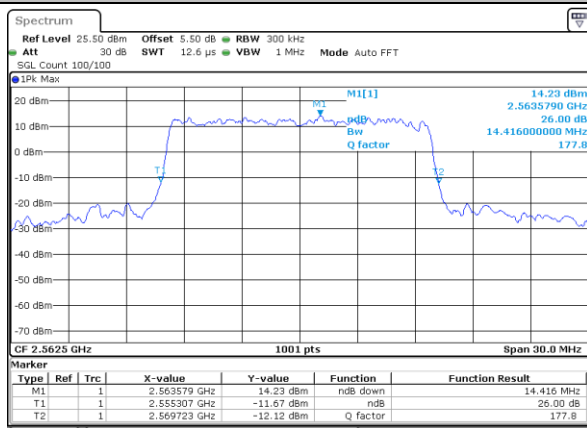
## Middle Channel / 15MHz / QPSK



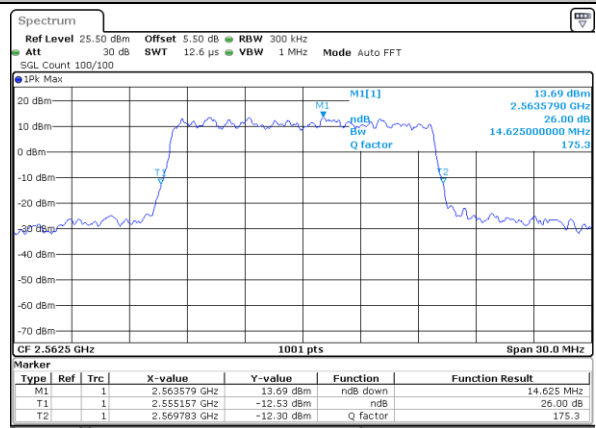
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



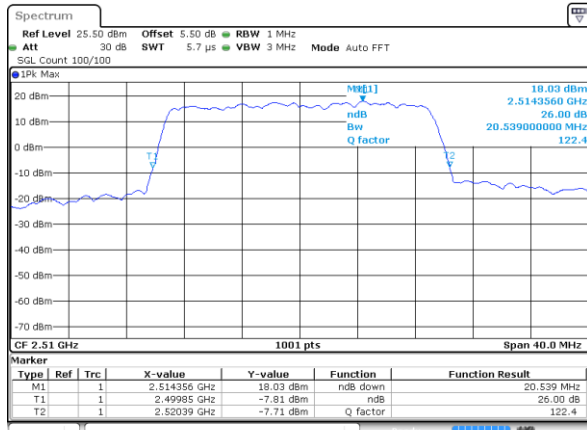
## Highest Channel / 15MHz / 16QAM





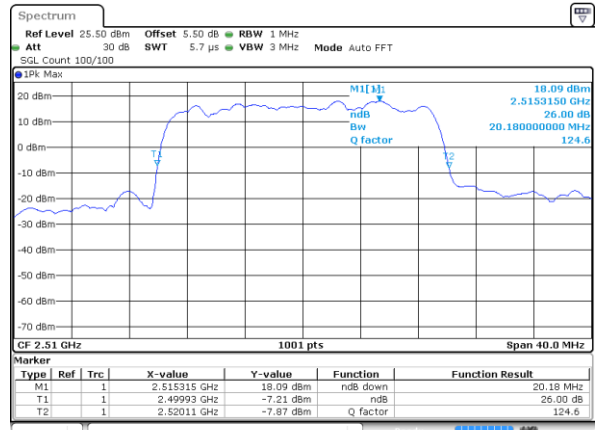
## LTE Band 7

## Lowest Channel / 20MHz / QPSK



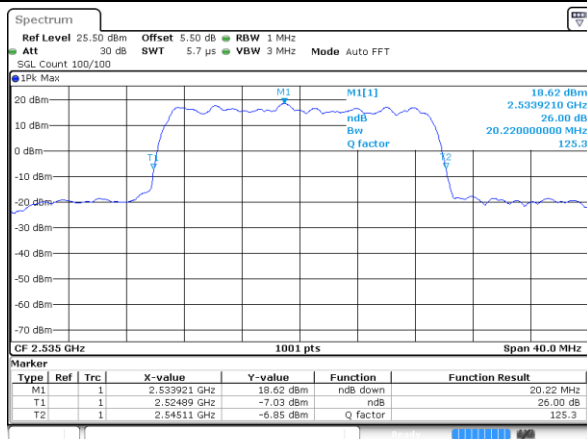
Date: 3 NOV 2017 09:38:03

## Lowest Channel / 20MHz / 16QAM



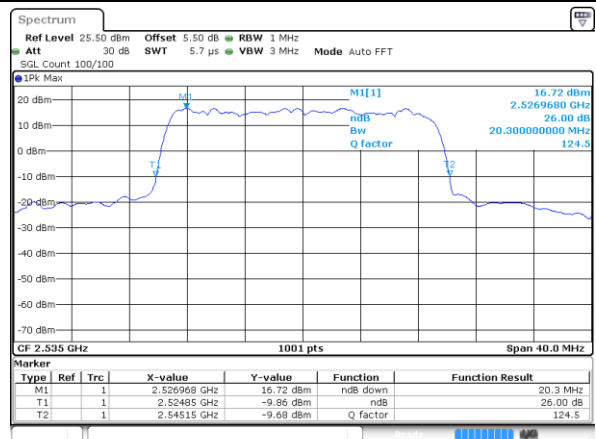
Date: 3 NOV 2017 09:37:43

## Middle Channel / 20MHz / QPSK



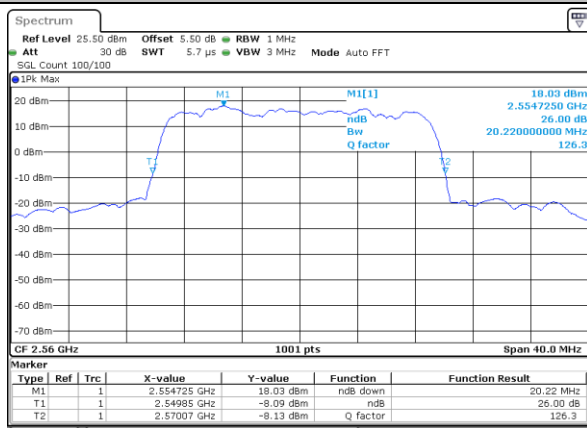
Date: 3 NOV 2017 09:38:23

## Middle Channel / 20MHz / 16QAM



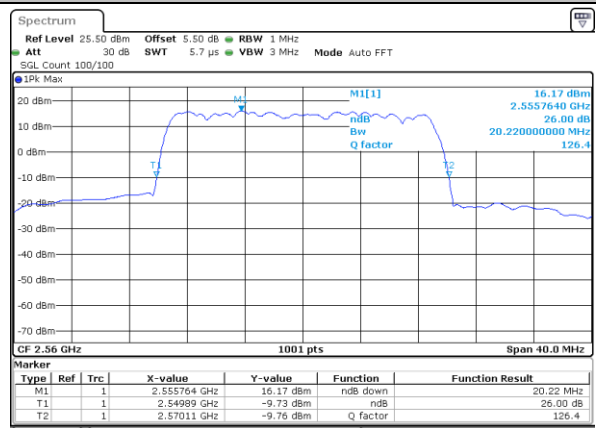
Date: 3 NOV 2017 09:38:43

## Highest Channel / 20MHz / QPSK



Date: 3 NOV 2017 09:39:22

## Highest Channel / 20MHz / 16QAM

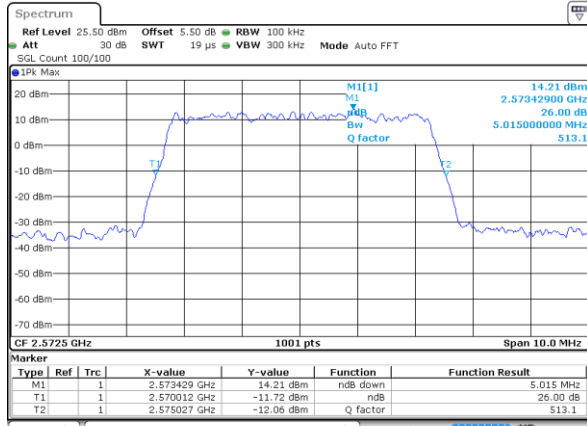


Date: 3 NOV 2017 09:39:02



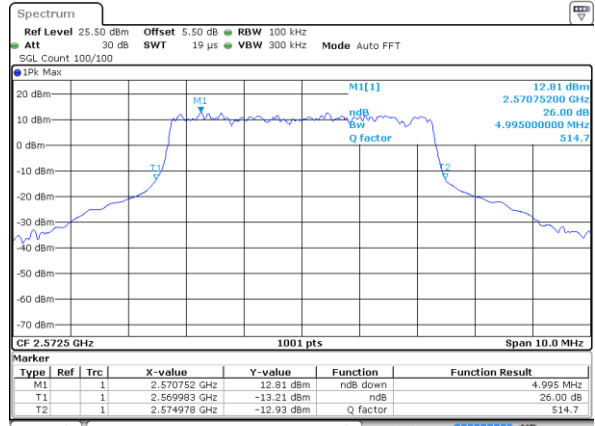
## LTE Band 38

## Lowest Channel / 5MHz / QPSK



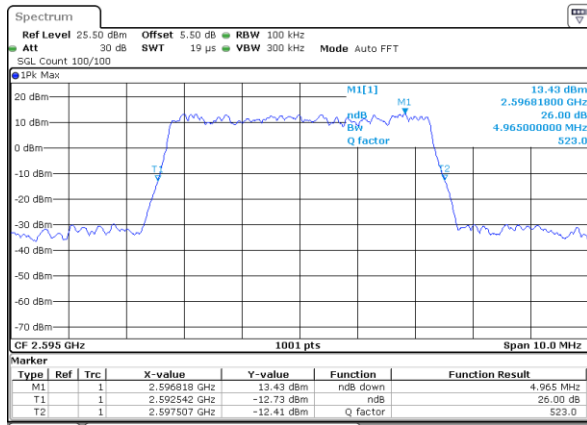
Date: 3 NOV 2017 10:25:08

## Lowest Channel / 5MHz / 16QAM



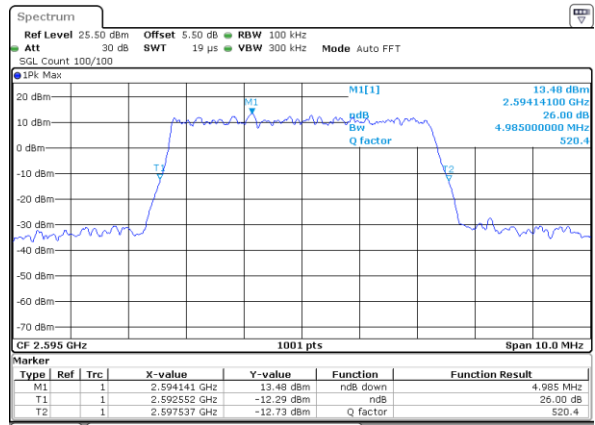
Date: 3 NOV 2017 10:25:18

## Middle Channel / 5MHz / QPSK



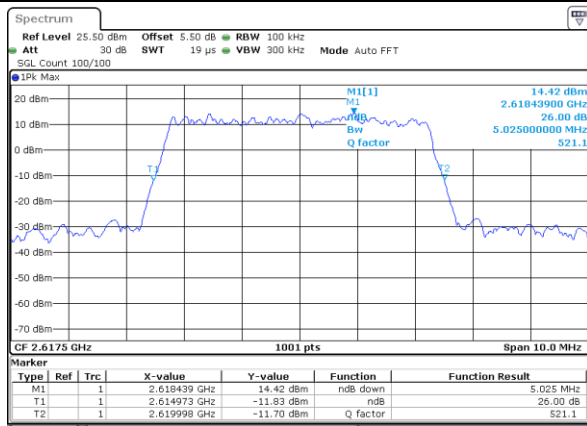
Date: 3 NOV 2017 10:25:48

## Middle Channel / 5MHz / 16QAM



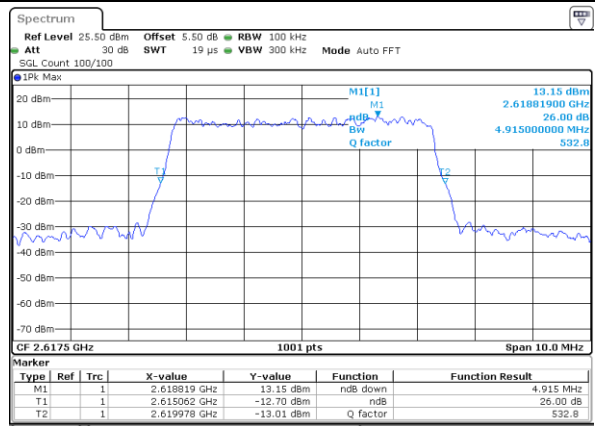
Date: 3 NOV 2017 10:25:58

## Highest Channel / 5MHz / QPSK



Date: 3 NOV 2017 10:26:28

## Highest Channel / 5MHz / 16QAM

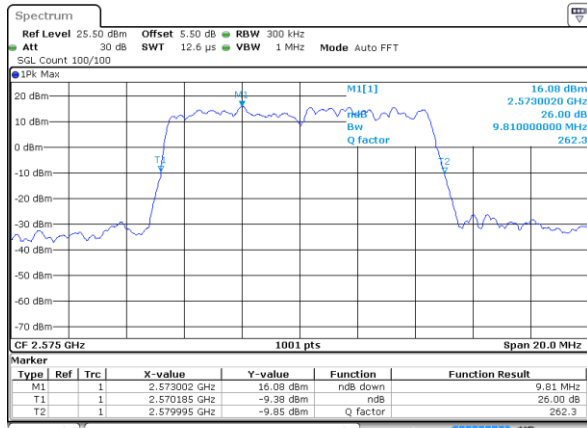


Date: 3 NOV 2017 10:26:38

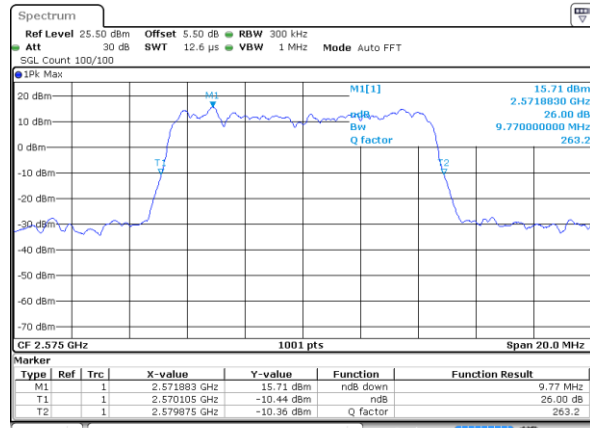


## LTE Band 38

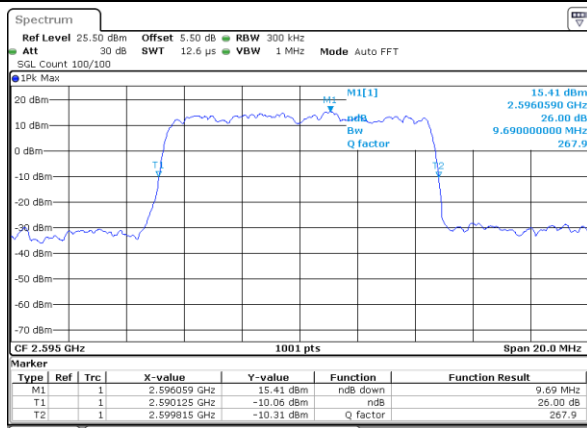
## Lowest Channel / 10MHz / QPSK



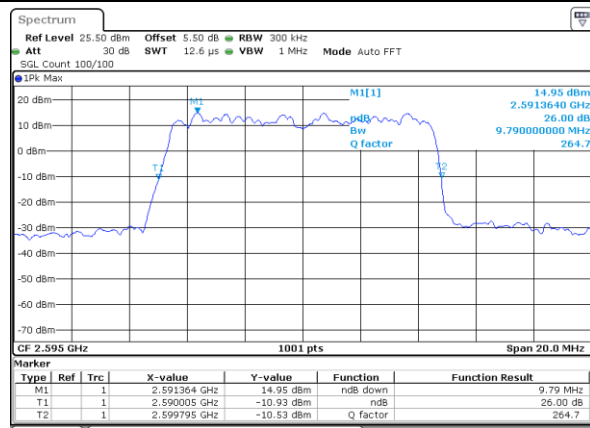
## Lowest Channel / 10MHz / 16QAM



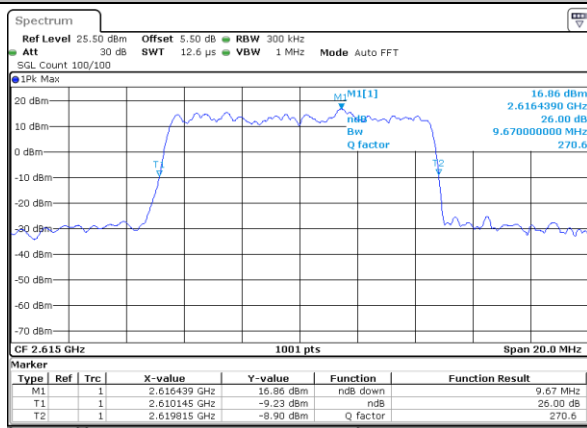
## Middle Channel / 10MHz / QPSK



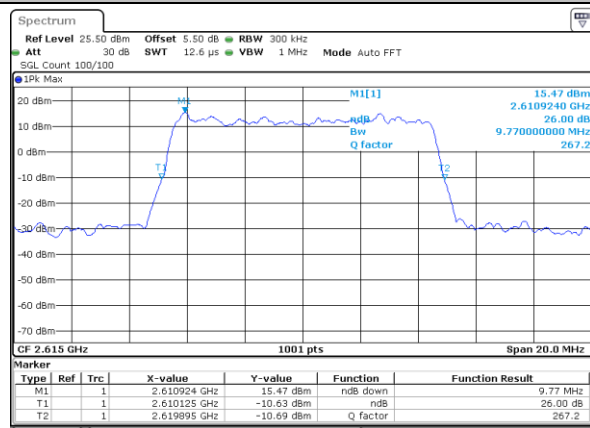
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



## Highest Channel / 10MHz / 16QAM



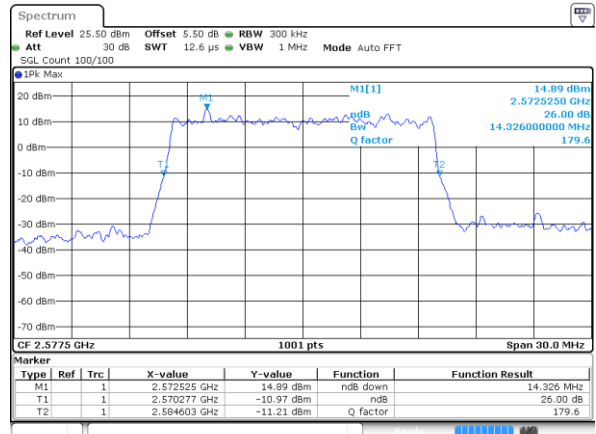


## LTE Band 38

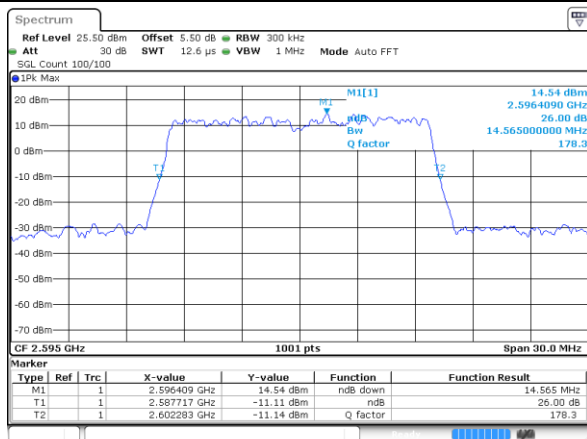
## Lowest Channel / 15MHz / QPSK



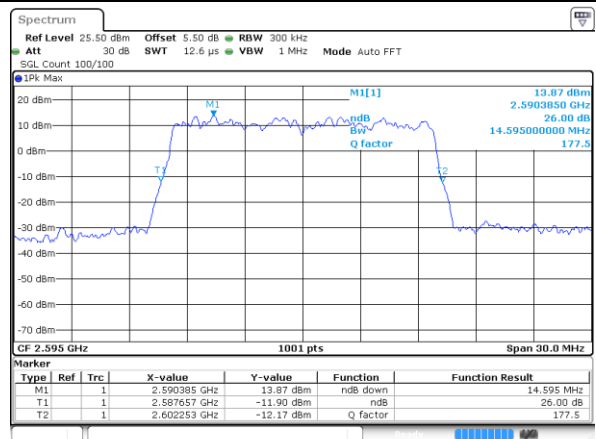
## Lowest Channel / 15MHz / 16QAM



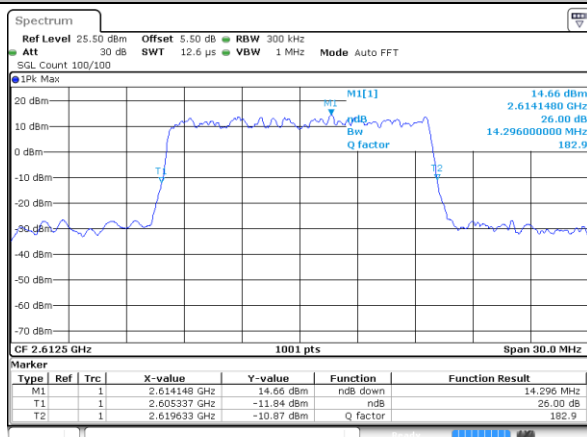
## Middle Channel / 15MHz / QPSK



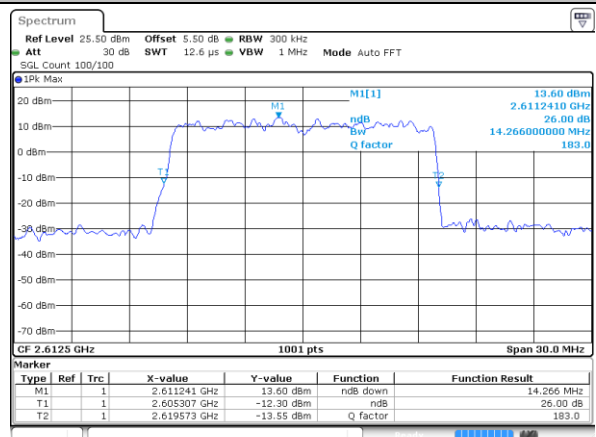
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



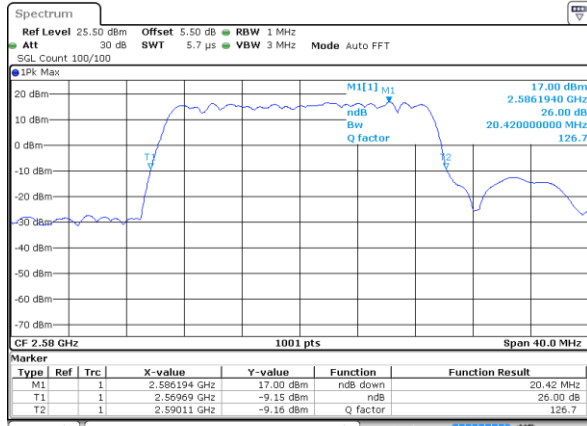
## Highest Channel / 15MHz / 16QAM



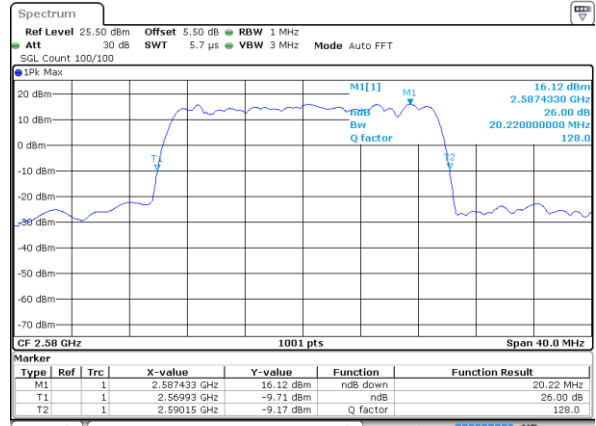


## LTE Band 38

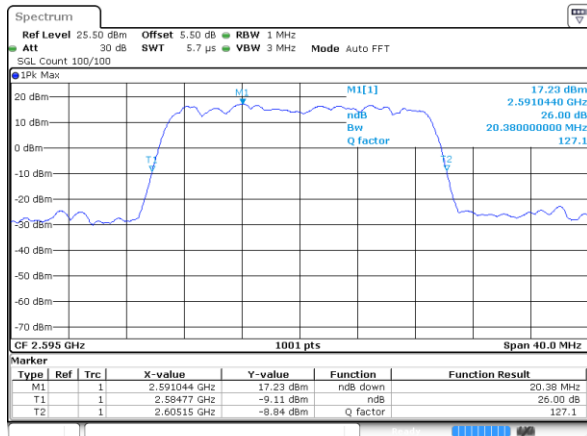
## Lowest Channel / 20MHz / QPSK



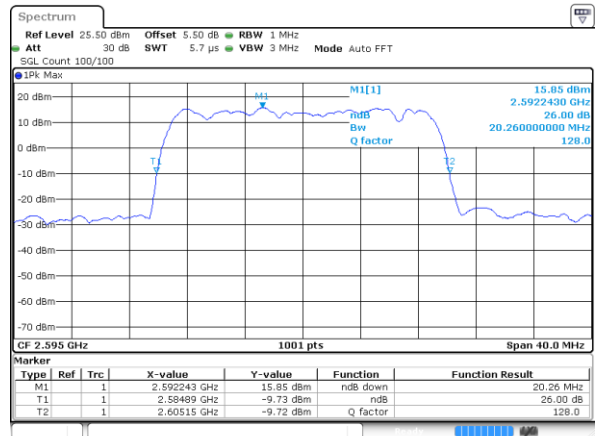
## Lowest Channel / 20MHz / 16QAM



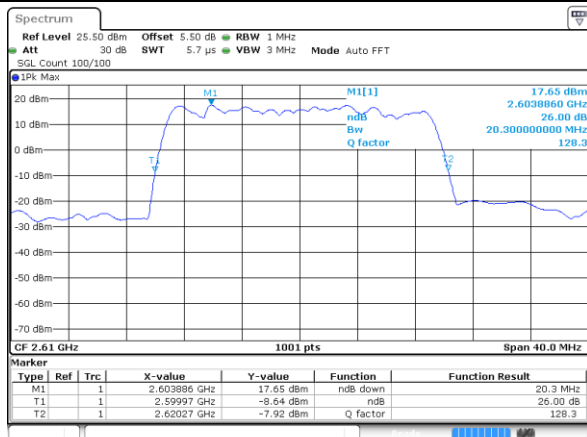
## Middle Channel / 20MHz / QPSK



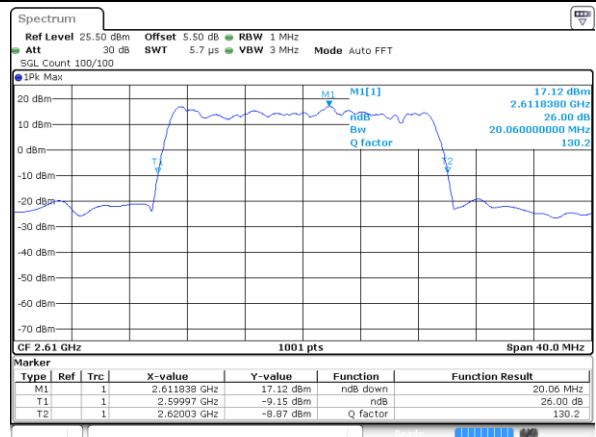
## Middle Channel / 20MHz / 16QAM



## Highest Channel / 20MHz / QPSK



## Highest Channel / 20MHz / 16QAM





## Occupied Bandwidth

| Mode       | LTE Band 2 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                     | 1.1   | 2.72 | 2.72  | 4.5  | 4.51  | 9.11  | 8.99  | 13.46 | 13.52 | 18.5  | 18.38 |
| Middle CH  | 1.09                     | 1.1   | 2.7  | 2.72  | 4.51 | 4.5   | 9.07  | 9.07  | 13.46 | 13.49 | 18.58 | 18.5  |
| Highest CH | 1.1                      | 1.09  | 2.72 | 2.72  | 4.51 | 4.49  | 9.07  | 9.03  | 13.43 | 13.43 | 18.22 | 18.1  |

| Mode       | LTE Band 4 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                     | 1.09  | 2.71 | 2.71  | 4.51 | 4.5   | 9.05  | 9.01  | 13.46 | 13.46 | 18.42 | 18.46 |
| Middle CH  | 1.1                      | 1.1   | 2.71 | 2.72  | 4.53 | 4.5   | 9.01  | 8.95  | 13.4  | 13.4  | 18.18 | 18.34 |
| Highest CH | 1.09                     | 1.1   | 2.71 | 2.72  | 4.51 | 4.49  | 9.05  | 9.03  | 13.46 | 13.49 | 18.54 | 18.34 |

| Mode       | LTE Band 5 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | 1.09                     | 1.09  | 2.72 | 2.72  | 4.51 | 4.51  | 9.07  | 9.05  | -     | -     | -     | -     |
| Middle CH  | 1.09                     | 1.09  | 2.71 | 2.70  | 4.51 | 4.51  | 9.05  | 9.03  | -     | -     | -     | -     |
| Highest CH | 1.10                     | 1.09  | 2.70 | 2.71  | 4.51 | 4.49  | 9.11  | 8.99  | -     | -     | -     | -     |

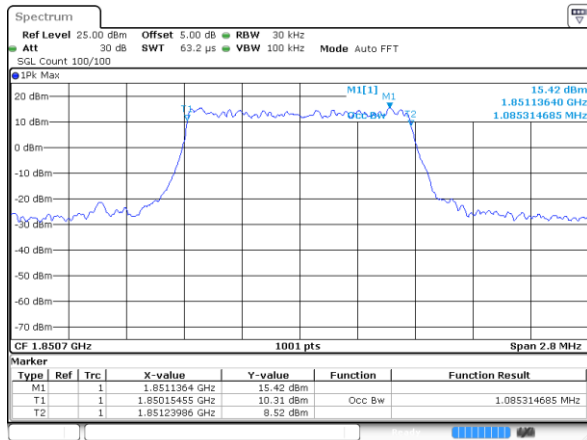
| Mode       | LTE Band 7 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|--------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                   |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                     | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                        | -     | -    | -     | 4.50 | 4.49  | 9.11  | 9.01  | 13.46 | 13.43 | 18.34 | 18.34 |
| Middle CH  | -                        | -     | -    | -     | 4.50 | 4.52  | 9.03  | 9.03  | 13.49 | 13.46 | 18.42 | 18.46 |
| Highest CH | -                        | -     | -    | -     | 4.50 | 4.53  | 9.07  | 9.03  | 13.43 | 13.49 | 18.30 | 18.46 |

| Mode       | LTE Band 38 : 99%OBW(MHz) |       |      |       |      |       |       |       |       |       |       |       |
|------------|---------------------------|-------|------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| BW         | 1.4MHz                    |       | 3MHz |       | 5MHz |       | 10MHz |       | 15MHz |       | 20MHz |       |
| Mod.       | QPSK                      | 16QAM | QPSK | 16QAM | QPSK | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM | QPSK  | 16QAM |
| Lowest CH  | -                         | -     | -    | -     | 4.53 | 4.51  | 9.03  | 9.03  | 13.43 | 13.43 | 18.38 | 18.38 |
| Middle CH  | -                         | -     | -    | -     | 4.48 | 4.51  | 9.07  | 9.03  | 13.46 | 13.43 | 18.34 | 18.42 |
| Highest CH | -                         | -     | -    | -     | 4.50 | 4.49  | 9.01  | 9.01  | 13.49 | 13.37 | 18.34 | 18.26 |



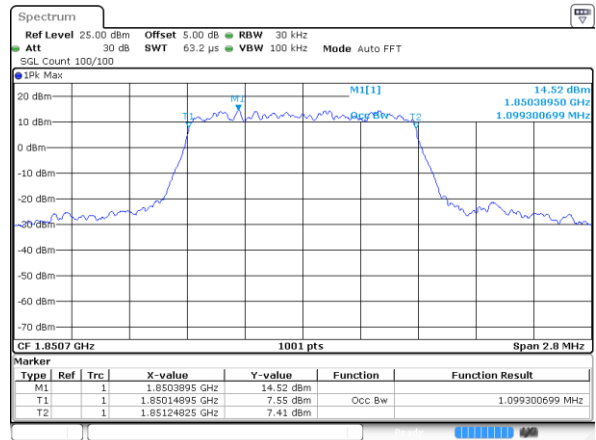
## LTE Band 2

## Lowest Channel / 1.4MHz / QPSK



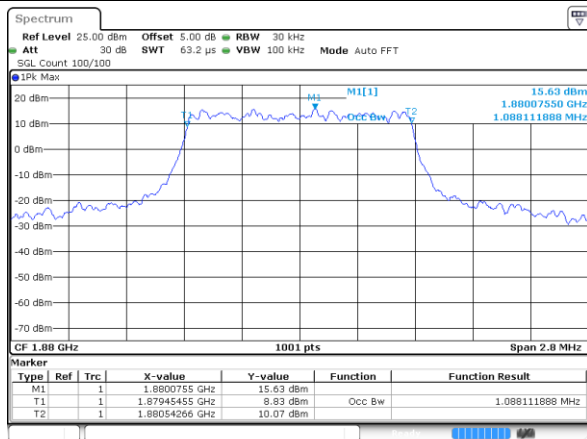
Date: 22 JAN 2018 08:36:44

## Lowest Channel / 1.4MHz / 16QAM



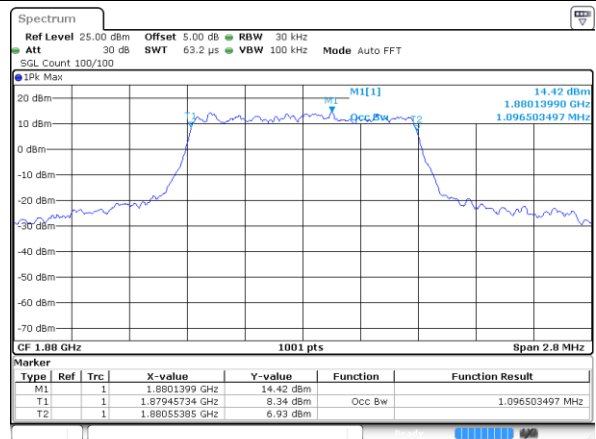
Date: 22 JAN 2018 08:36:55

## Middle Channel / 1.4MHz / QPSK



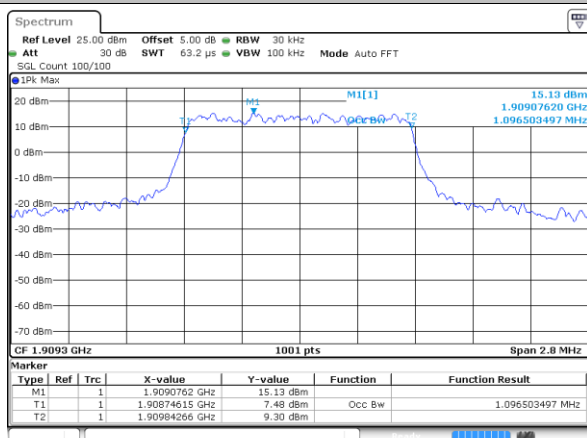
Date: 22 JAN 2018 08:43:54

## Middle Channel / 1.4MHz / 16QAM



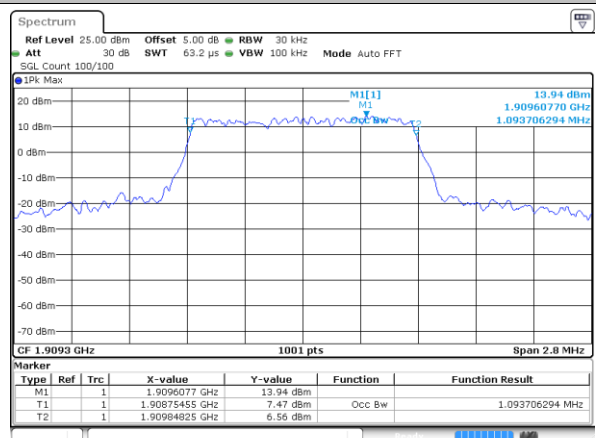
Date: 22 JAN 2018 08:44:05

## Highest Channel / 1.4MHz / QPSK



Date: 22 JAN 2018 08:46:26

## Highest Channel / 1.4MHz / 16QAM

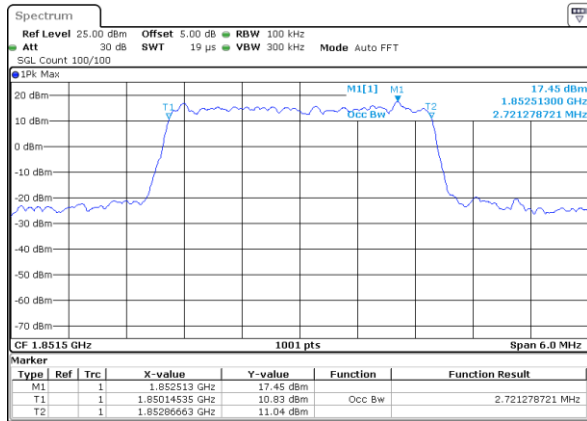


Date: 22 JAN 2018 08:46:37



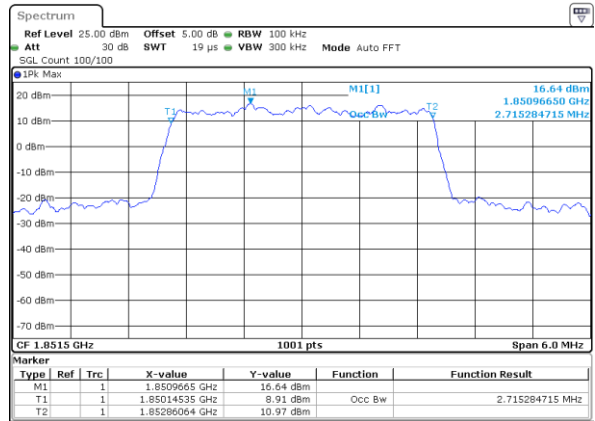
## LTE Band 2

## Lowest Channel / 3MHz / QPSK



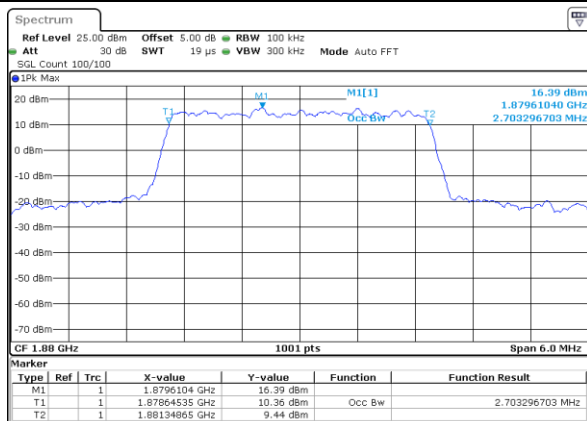
Date: 22 JAN 2018 08:53:35

## Lowest Channel / 3MHz / 16QAM



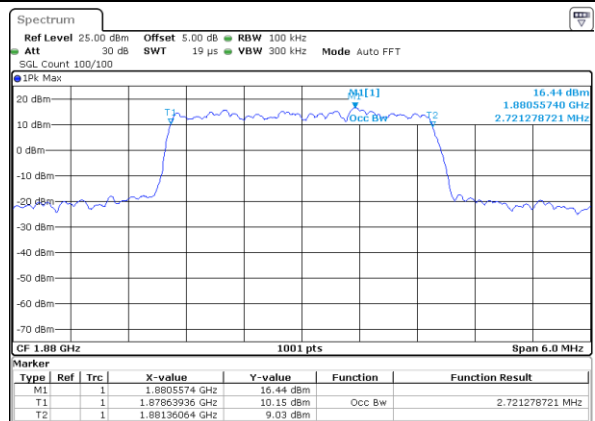
Date: 22 JAN 2018 08:53:46

## Middle Channel / 3MHz / QPSK



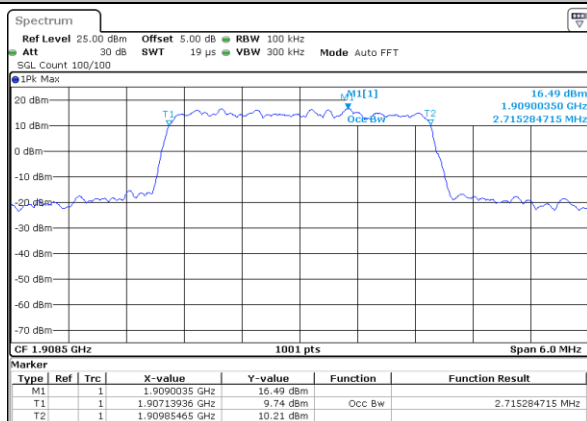
Date: 22 JAN 2018 09:00:45

## Middle Channel / 3MHz / 16QAM



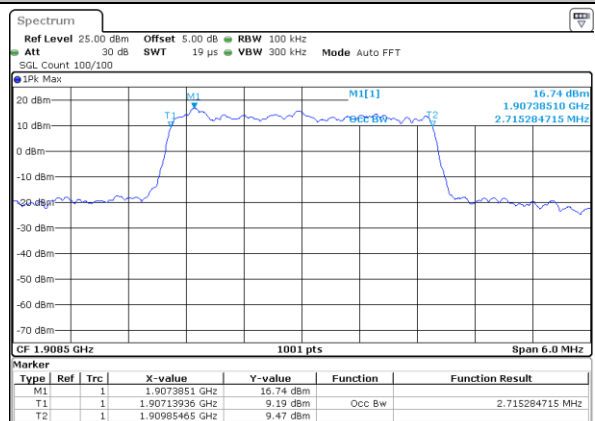
Date: 22 JAN 2018 09:00:55

## Highest Channel / 3MHz / QPSK



Date: 22 JAN 2018 09:03:17

## Highest Channel / 3MHz / 16QAM

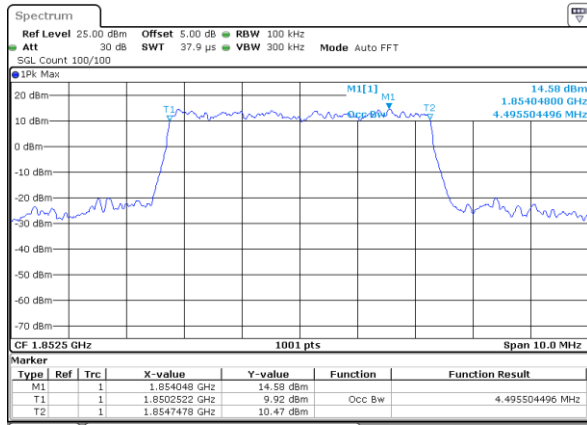


Date: 22 JAN 2018 09:03:27



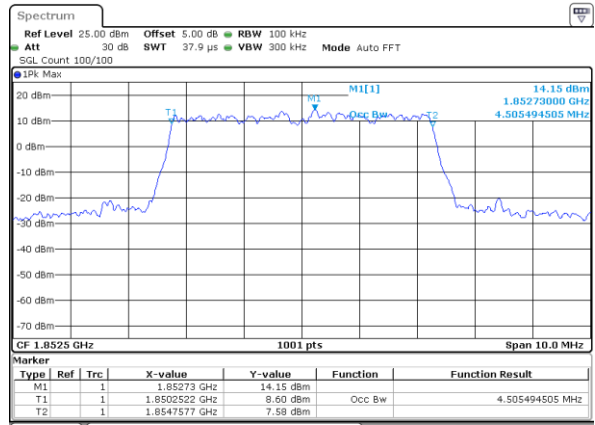
## LTE Band 2

## Lowest Channel / 5MHz / QPSK



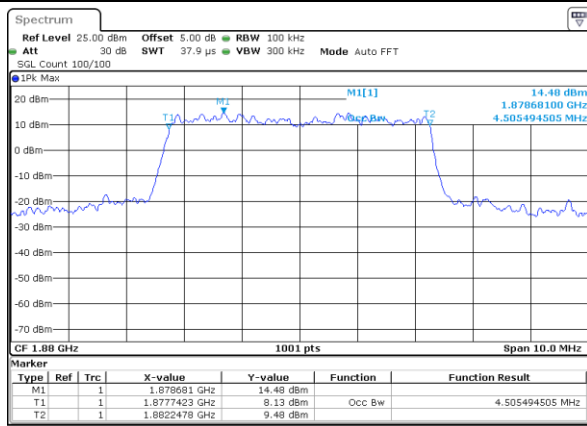
Date: 22 JAN 2018 09:14:28

## Lowest Channel / 5MHz / 16QAM



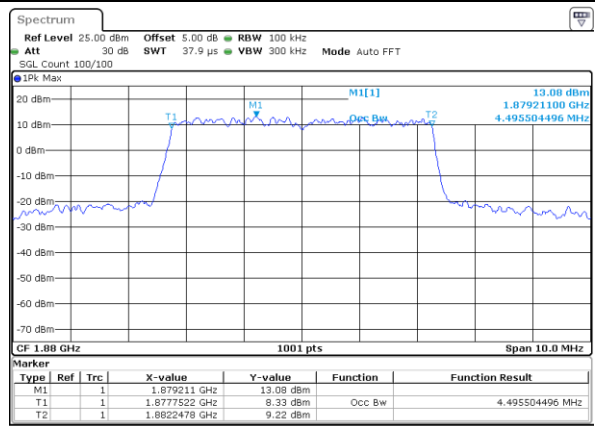
Date: 22 JAN 2018 09:14:39

## Middle Channel / 5MHz / QPSK



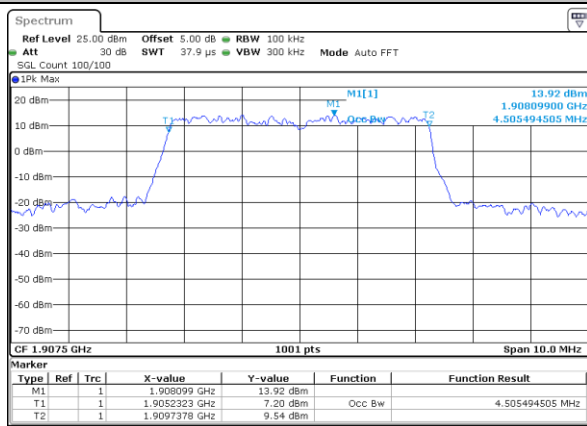
Date: 22 JAN 2018 09:21:38

## Middle Channel / 5MHz / 16QAM



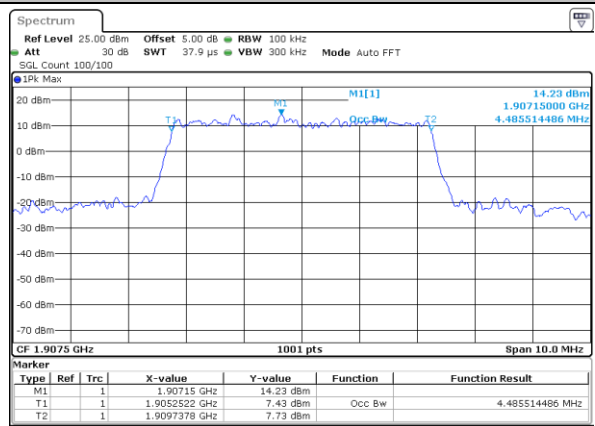
Date: 22 JAN 2018 09:21:49

## Highest Channel / 5MHz / QPSK



Date: 22 JAN 2018 09:24:11

## Highest Channel / 5MHz / 16QAM

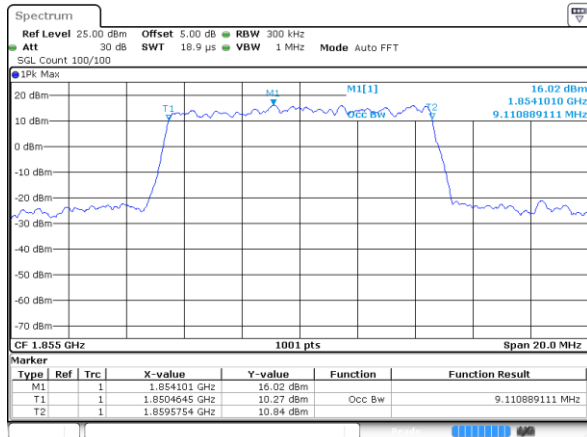


Date: 22 JAN 2018 09:24:21

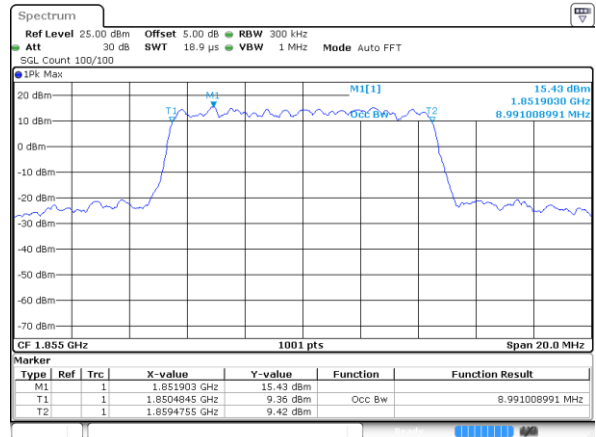


## LTE Band 2

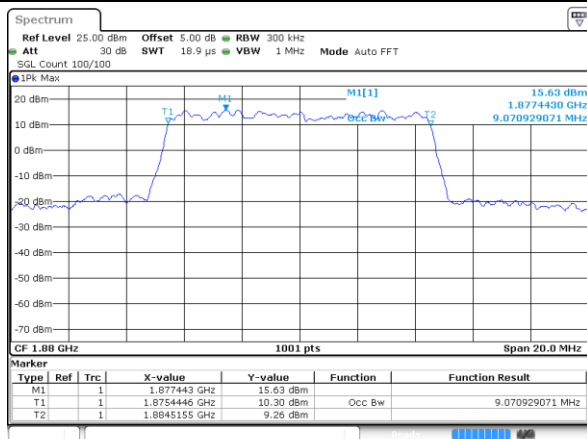
## Lowest Channel / 10MHz / QPSK



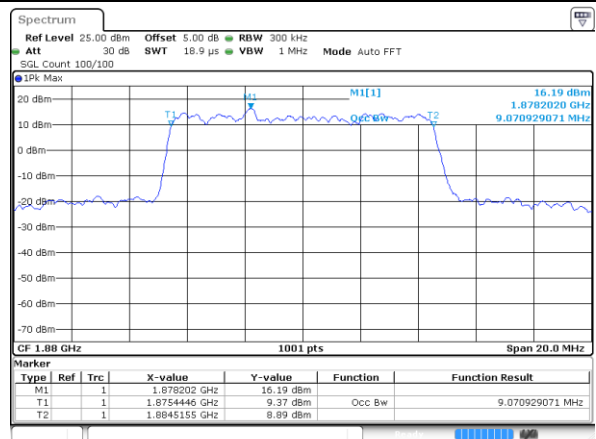
## Lowest Channel / 10MHz / 16QAM



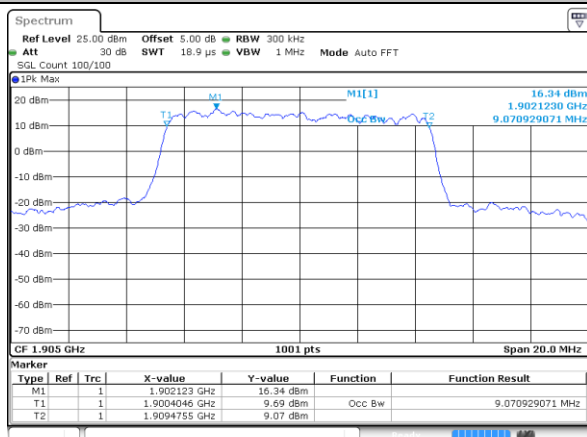
## Middle Channel / 10MHz / QPSK



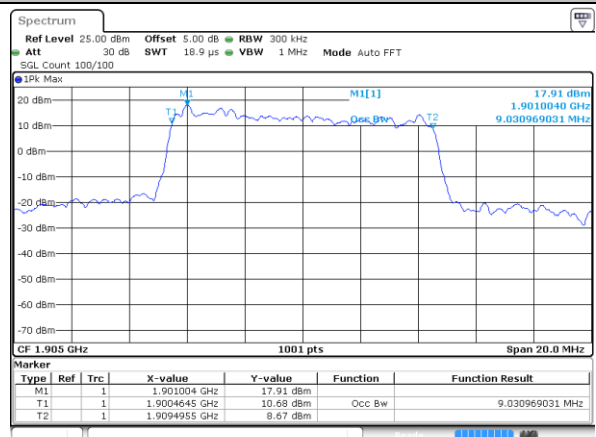
## Middle Channel / 10MHz / 16QAM



## Highest Channel / 10MHz / QPSK



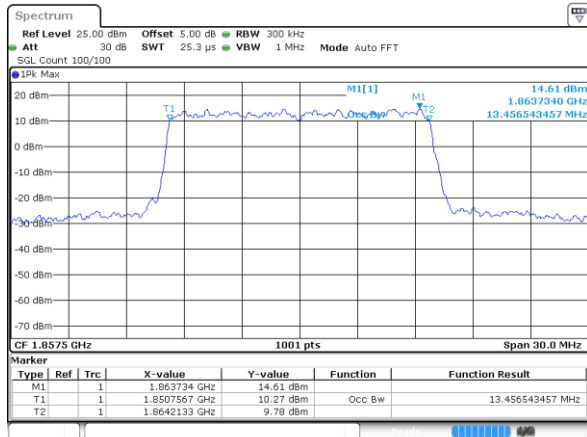
## Highest Channel / 10MHz / 16QAM



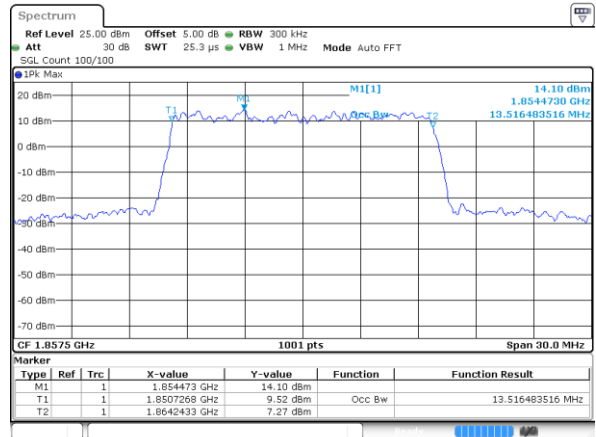


## LTE Band 2

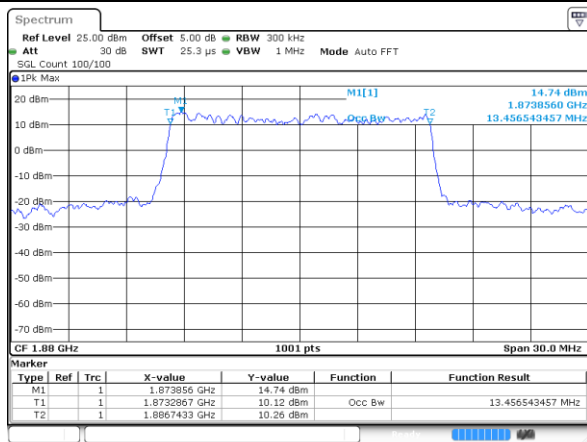
## Lowest Channel / 15MHz / QPSK



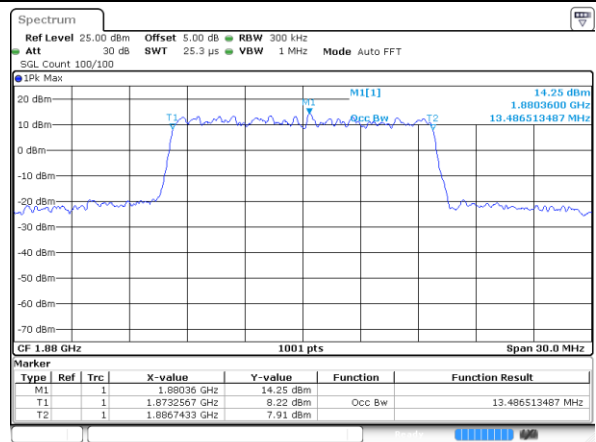
## Lowest Channel / 15MHz / 16QAM



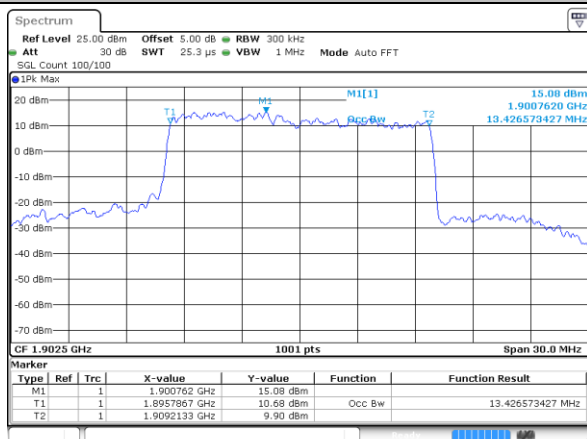
## Middle Channel / 15MHz / QPSK



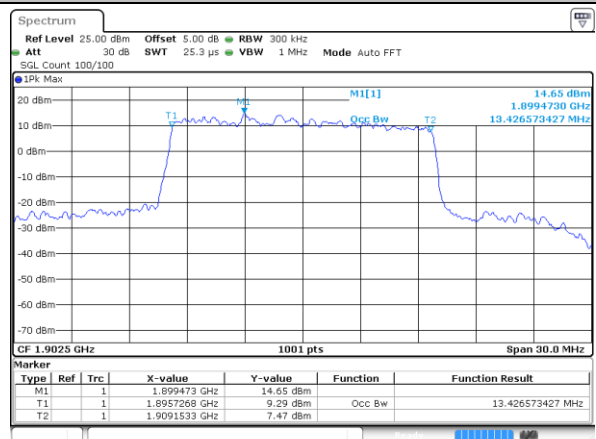
## Middle Channel / 15MHz / 16QAM



## Highest Channel / 15MHz / QPSK



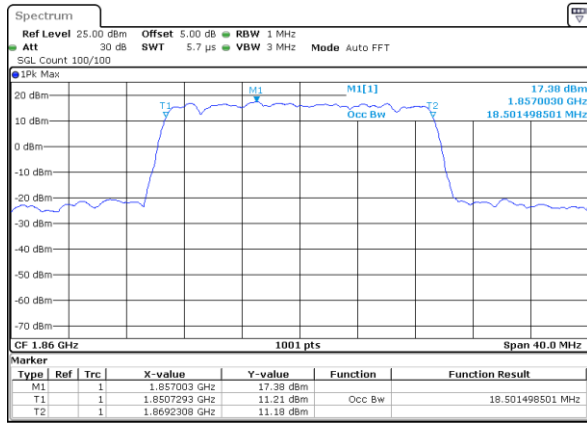
## Highest Channel / 15MHz / 16QAM





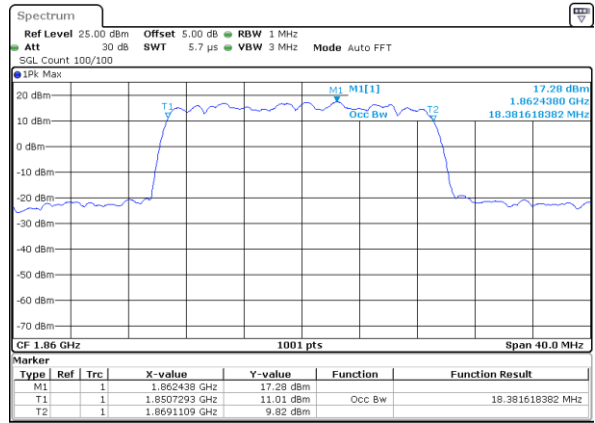
## LTE Band 2

## Lowest Channel / 20MHz / QPSK



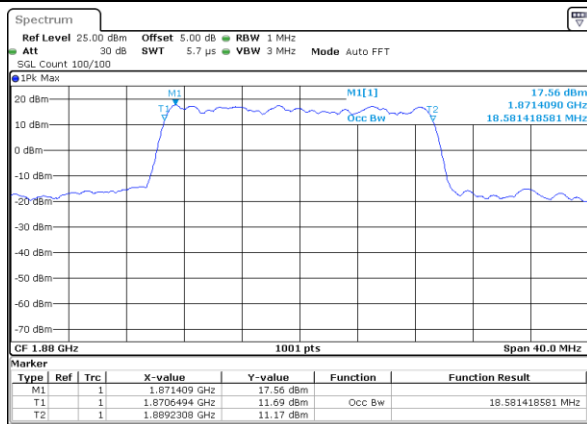
Date: 22 JAN 2018 11:09:40

## Lowest Channel / 20MHz / 16QAM



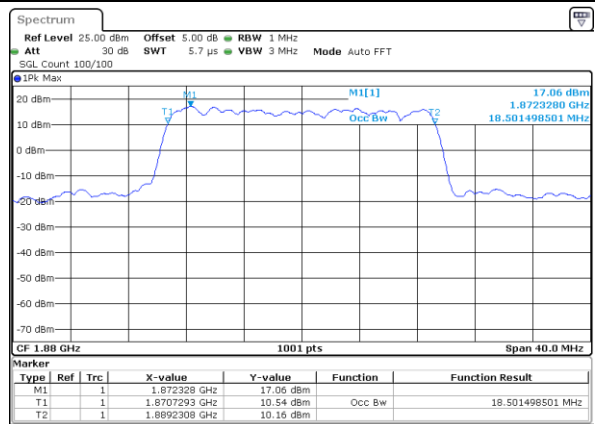
Date: 22 JAN 2018 11:09:51

## Middle Channel / 20MHz / QPSK



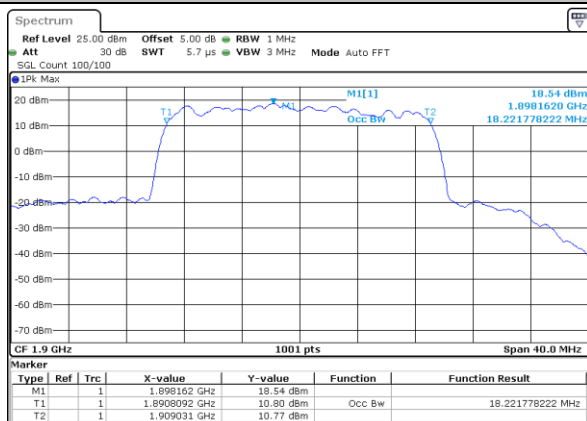
Date: 22 JAN 2018 11:16:48

## Middle Channel / 20MHz / 16QAM



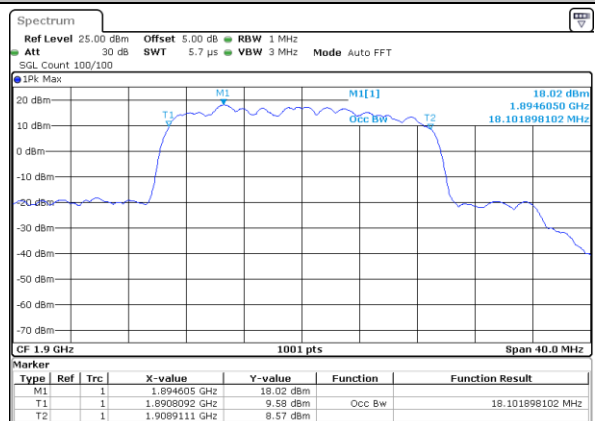
Date: 22 JAN 2018 11:16:57

## Highest Channel / 20MHz / QPSK



Date: 22 JAN 2018 11:19:20

## Highest Channel / 20MHz / 16QAM

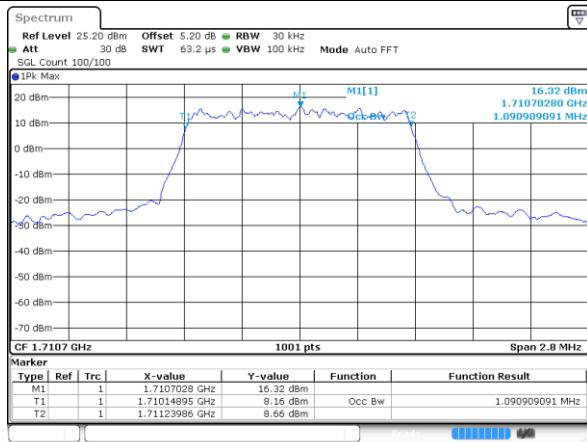


Date: 22 JAN 2018 11:19:32

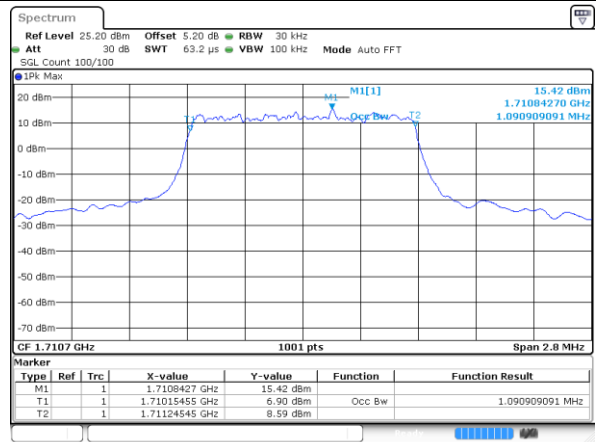


## LTE Band 4

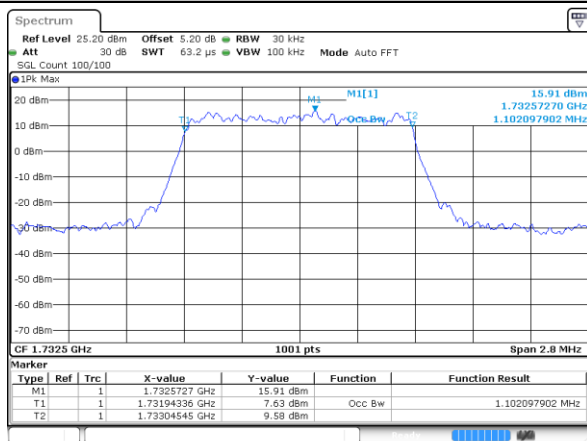
## Lowest Channel / 1.4MHz / QPSK



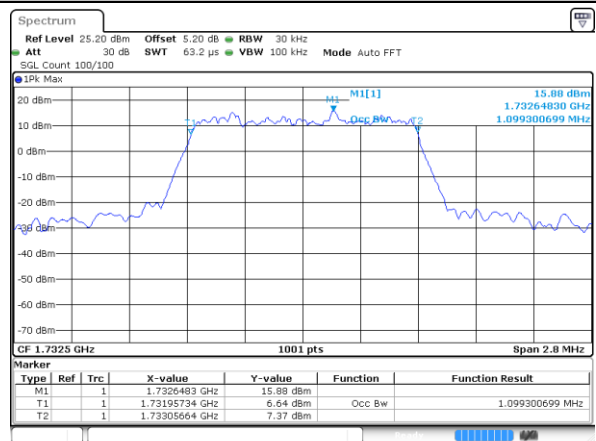
## Lowest Channel / 1.4MHz / 16QAM



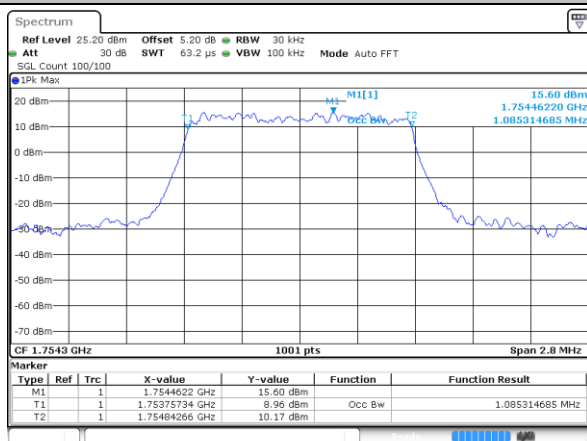
## Middle Channel / 1.4MHz / QPSK



## Middle Channel / 1.4MHz / 16QAM



## Highest Channel / 1.4MHz / QPSK



## Highest Channel / 1.4MHz / 16QAM

